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FIGURE 1A
FIGURE 1B

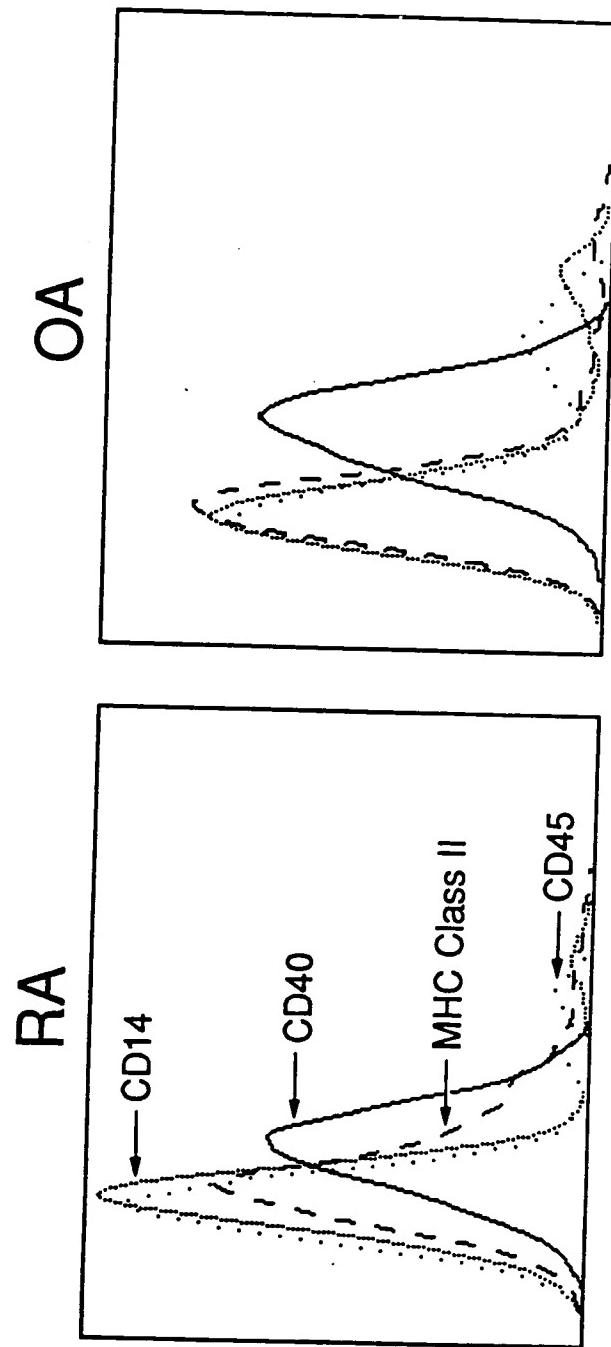
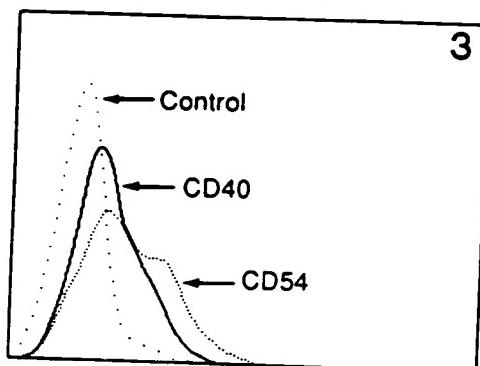
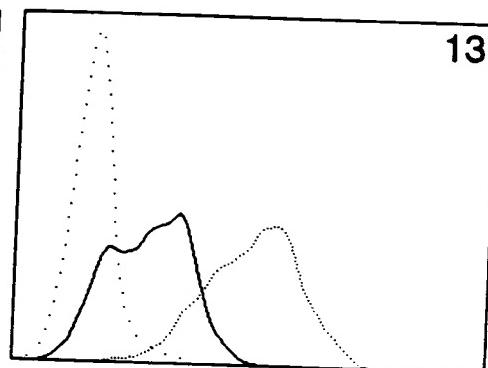


FIGURE 2A

Resting

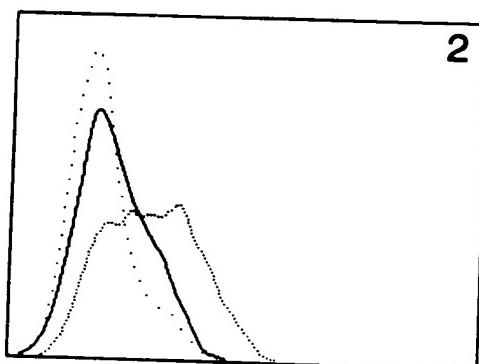
CCD
965 SK**FIGURE 2B** γ -INF

13

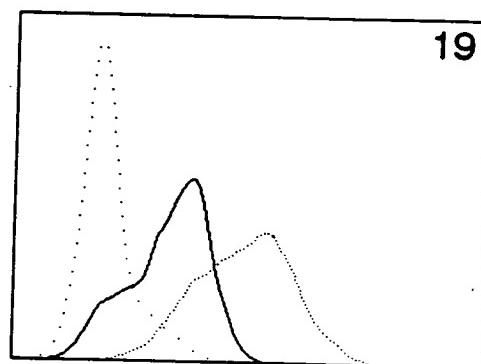
**FIGURE 2C**

SK.1

2

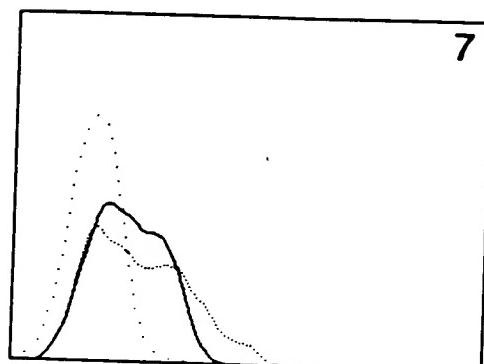
**FIGURE 2D**

19

**FIGURE 2E**

SK.2

7

**FIGURE 2F**

27

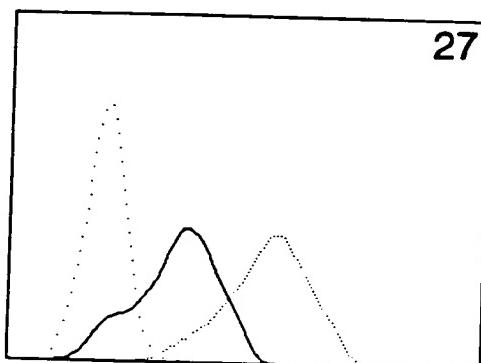
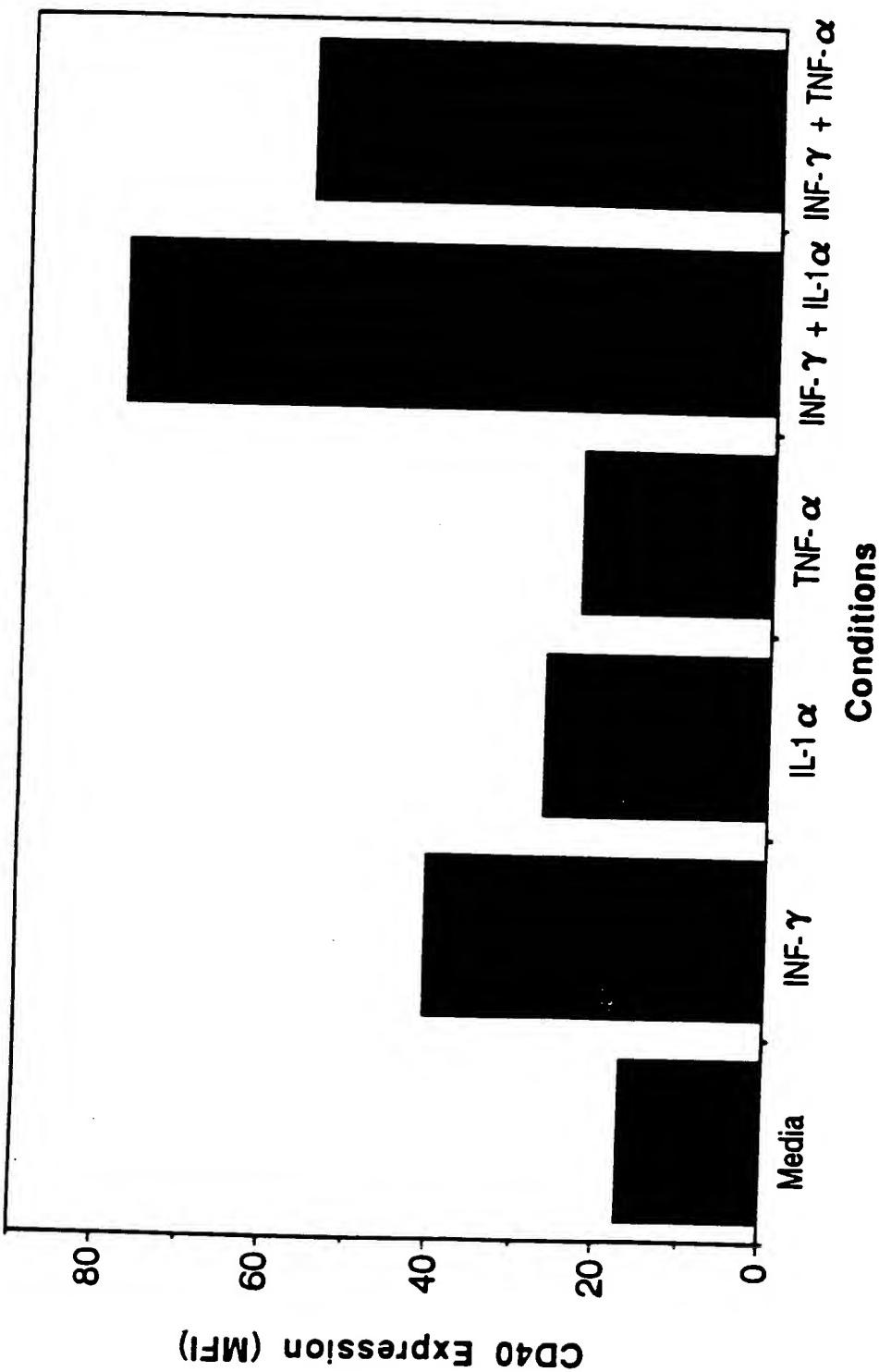


FIGURE 3

IA.1 cells plus:

Media

D1.1

D1.1
+
Anti-CD40L mAb

D1.1
+
Isotype Control mAb

B2.7

INF- γ

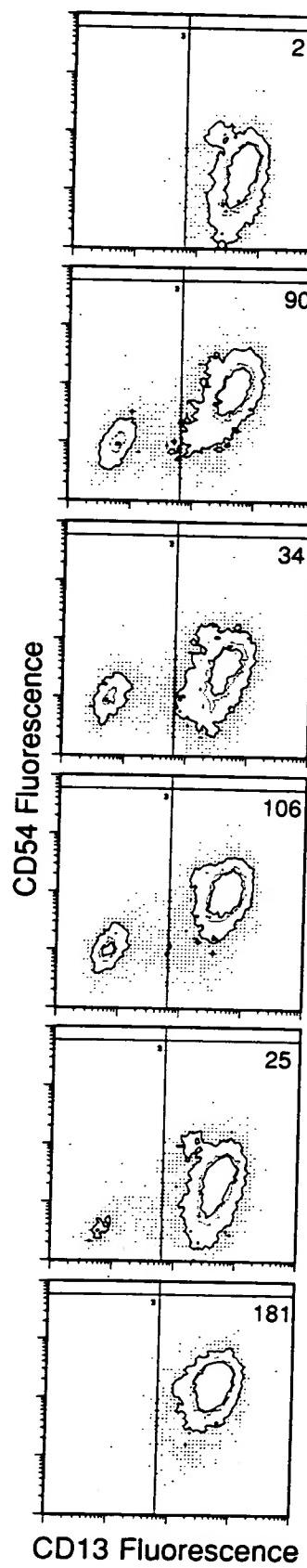


FIGURE 4A

FIGURE 4B

FIGURE 4C

FIGURE 4D

FIGURE 4E

FIGURE 4F

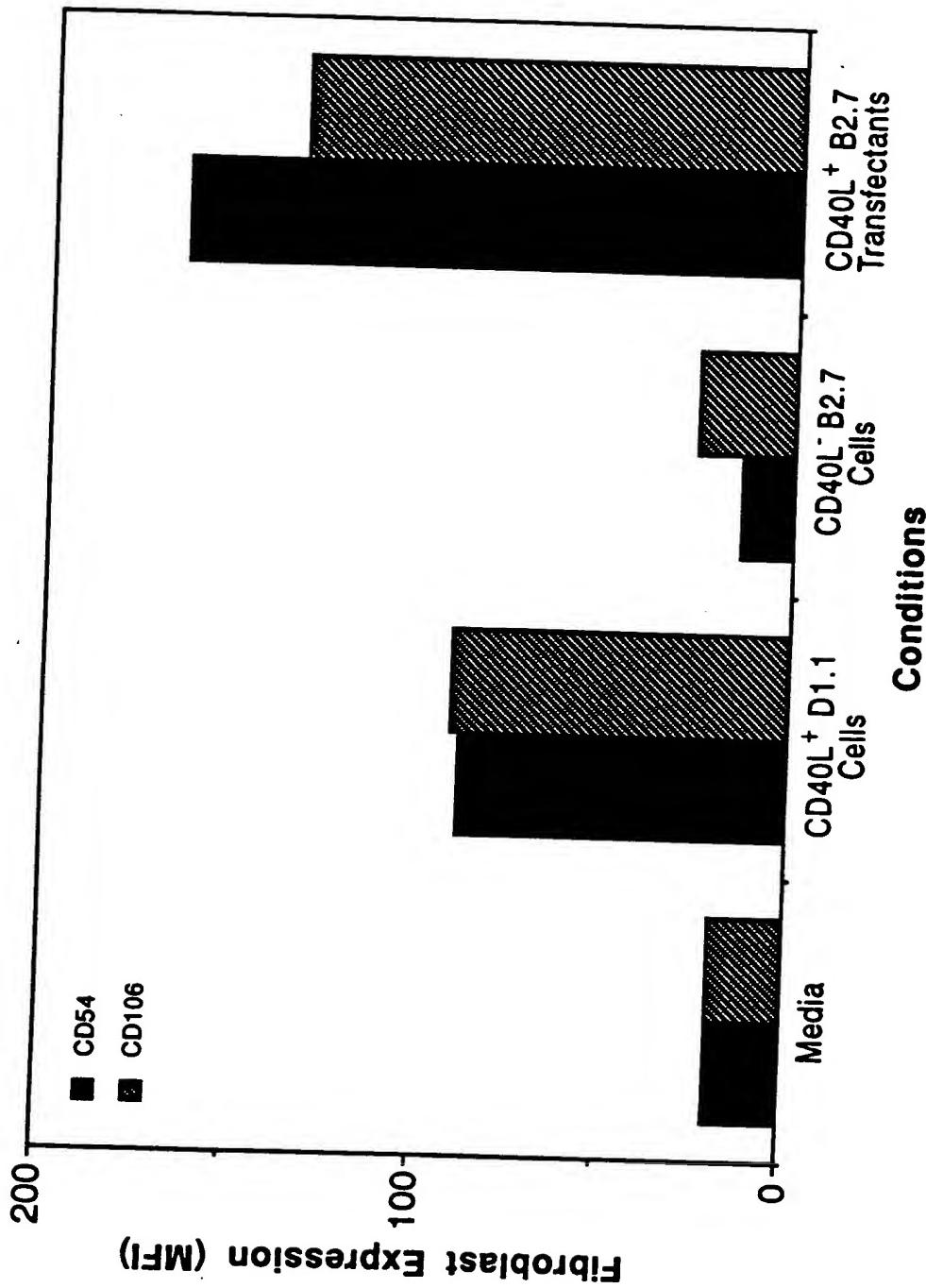
FIGURE 5

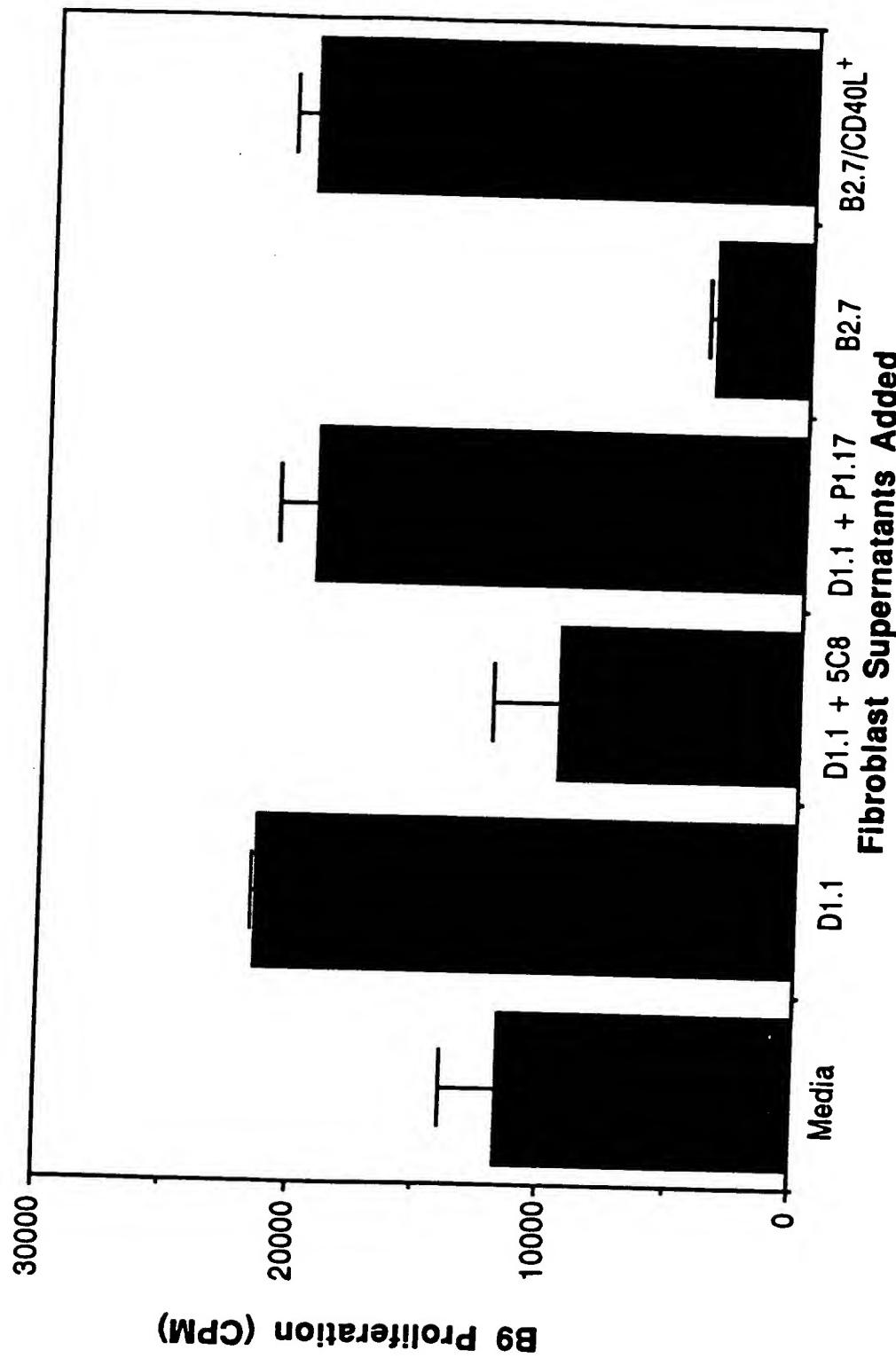
FIGURE 6A

FIGURE 6B

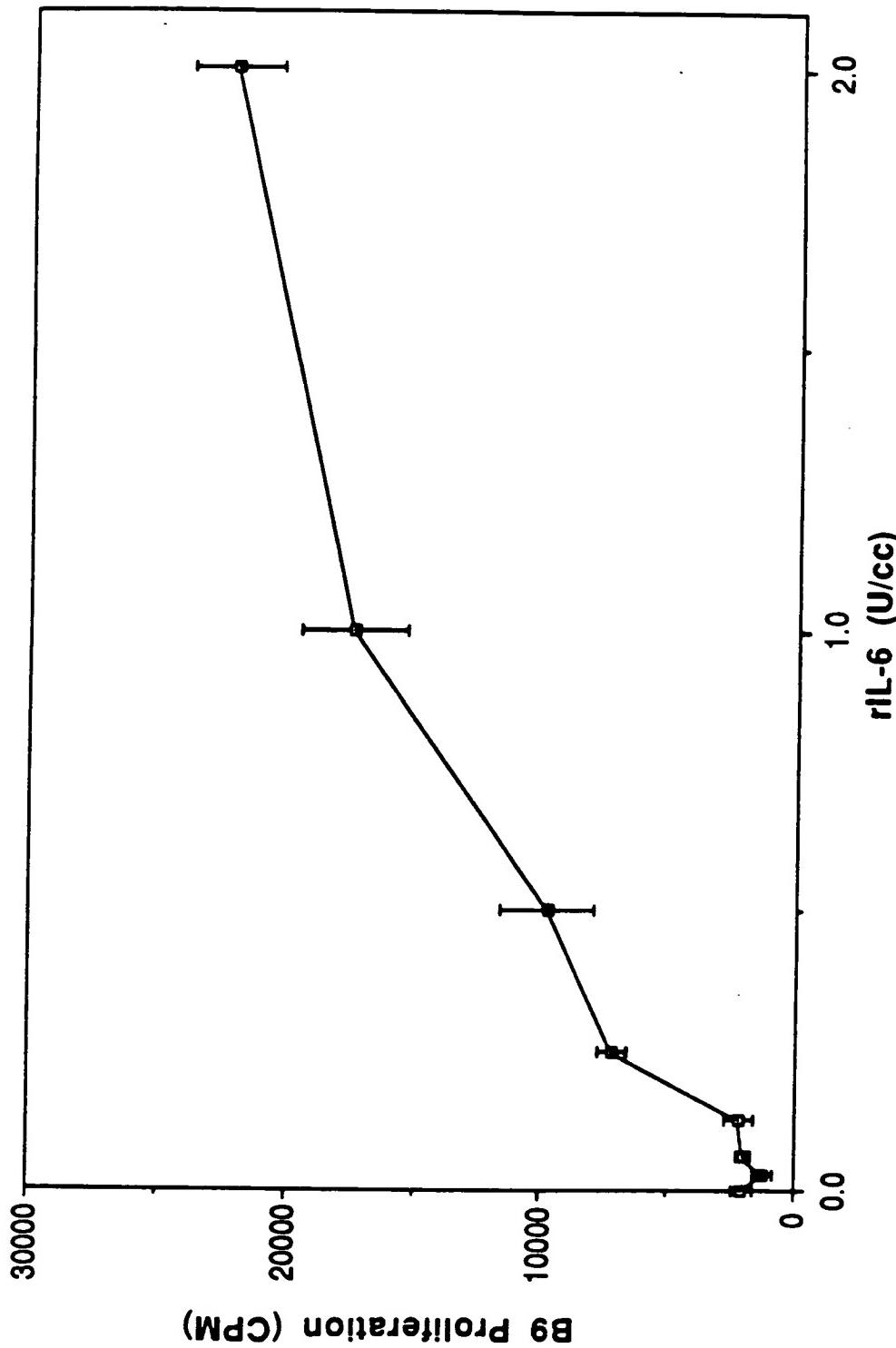


FIGURE 7

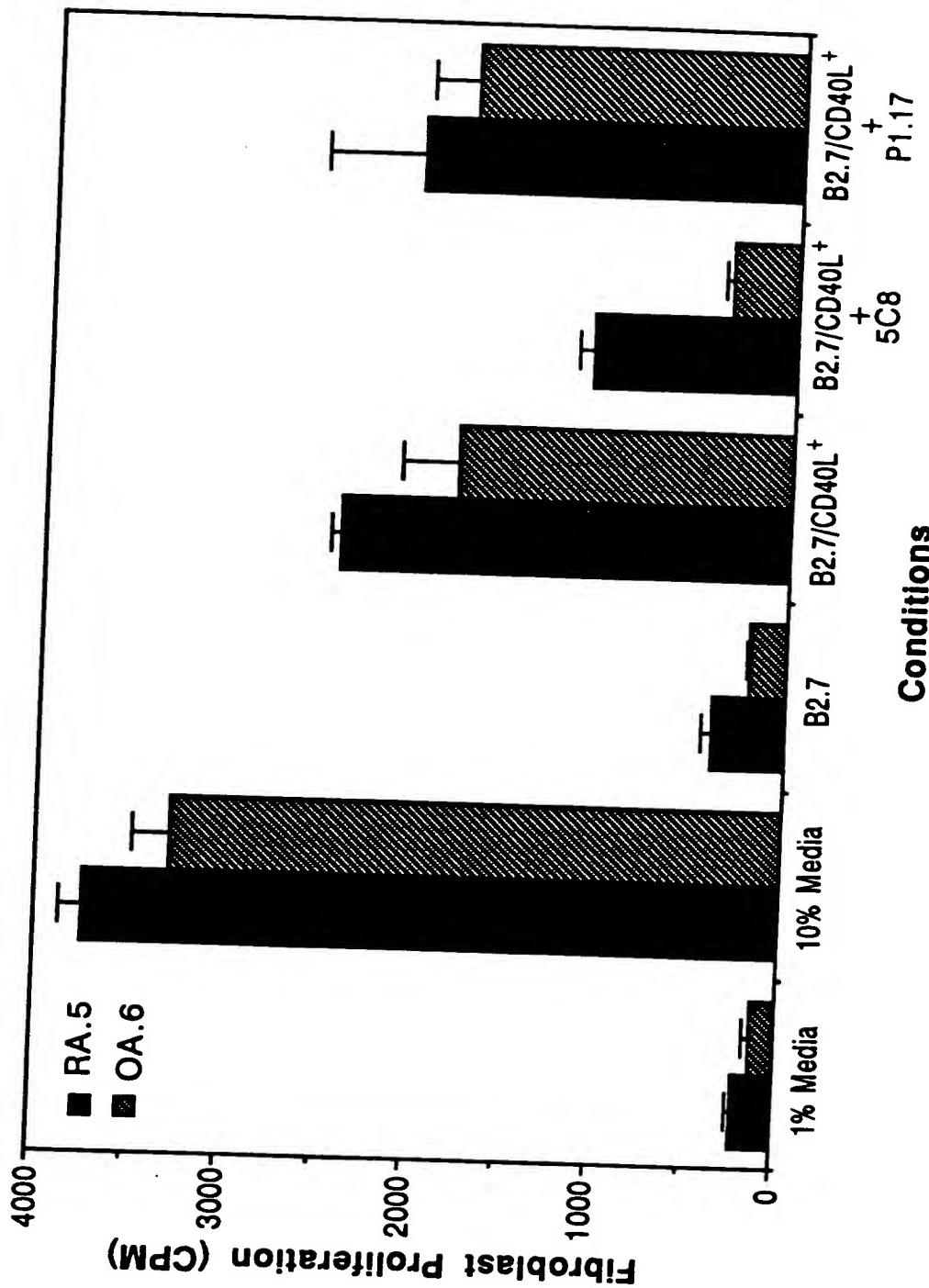


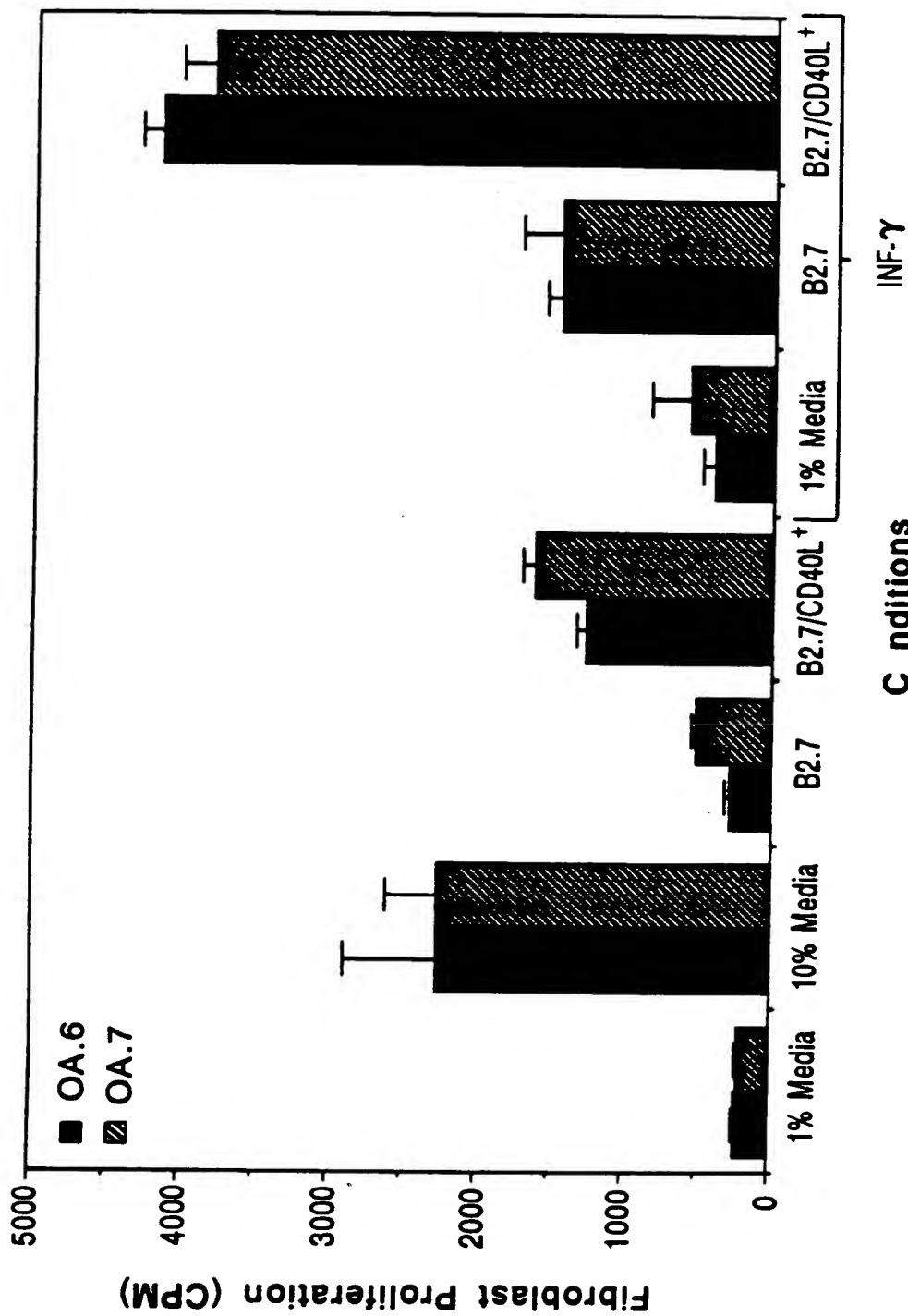
FIGURE 8

FIGURE 9B
FIGURE 9A

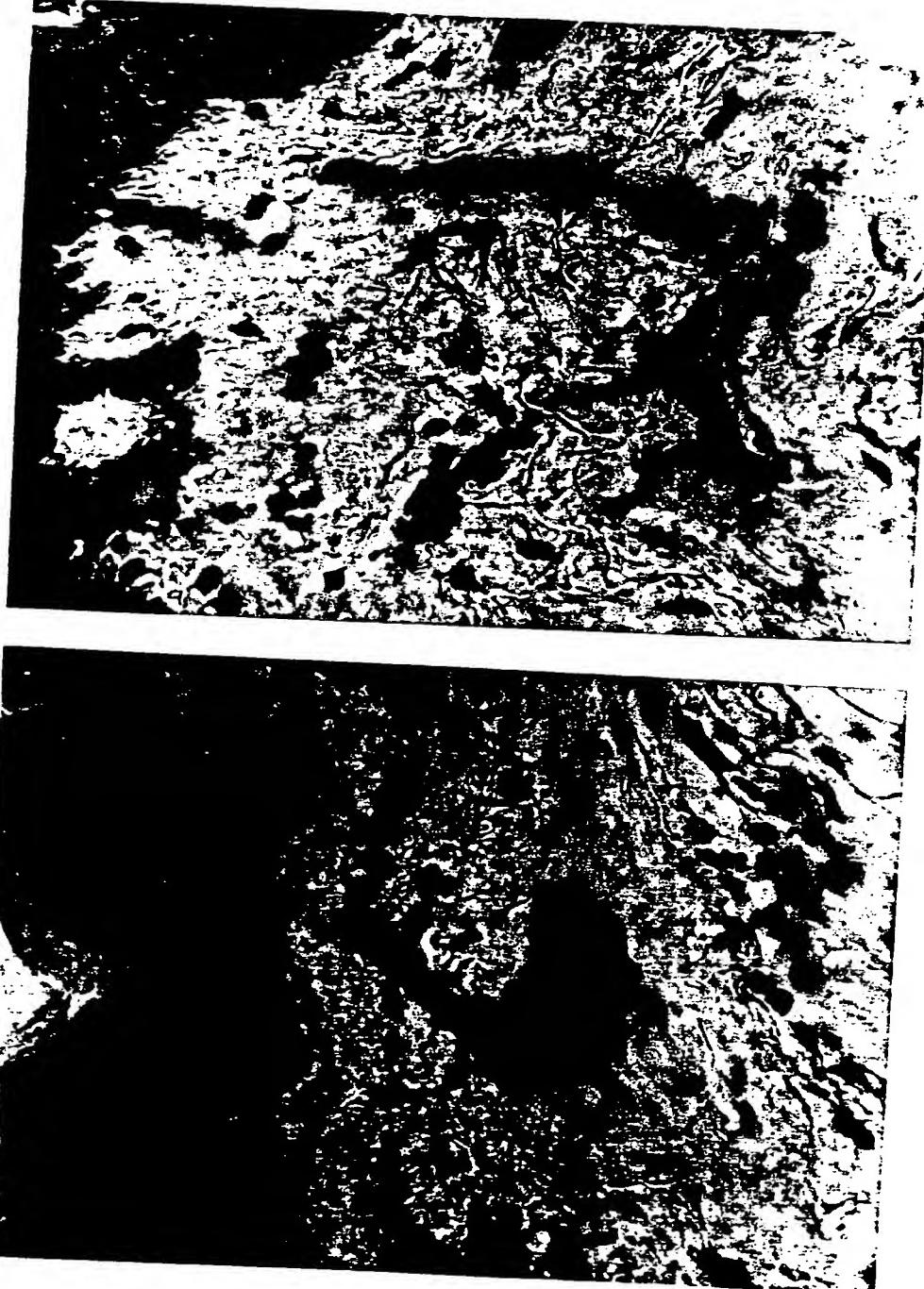


FIGURE 9C

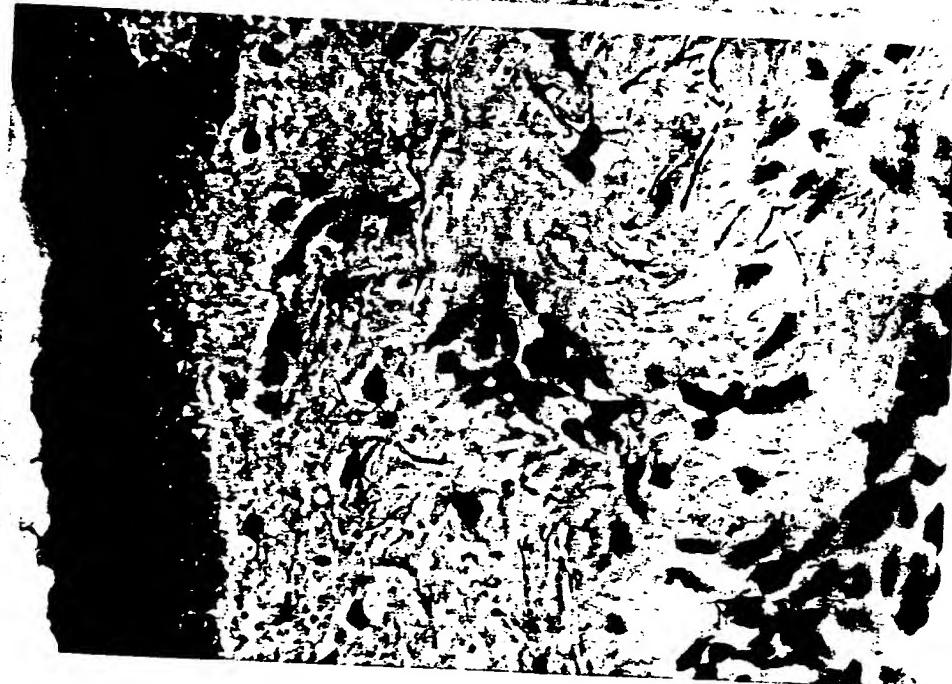
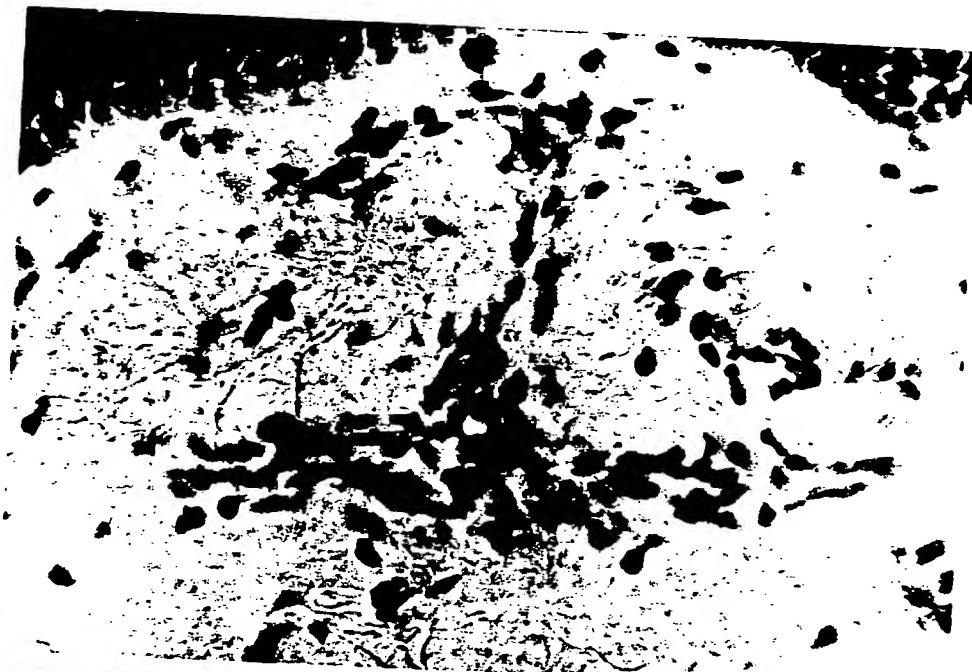
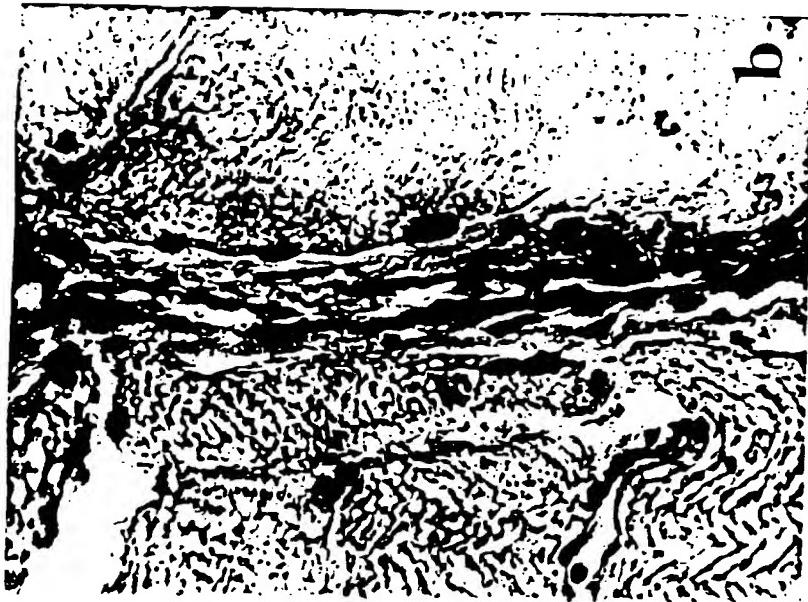


FIGURE 9D



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FIGURE 10B



b

FIGURE 10A



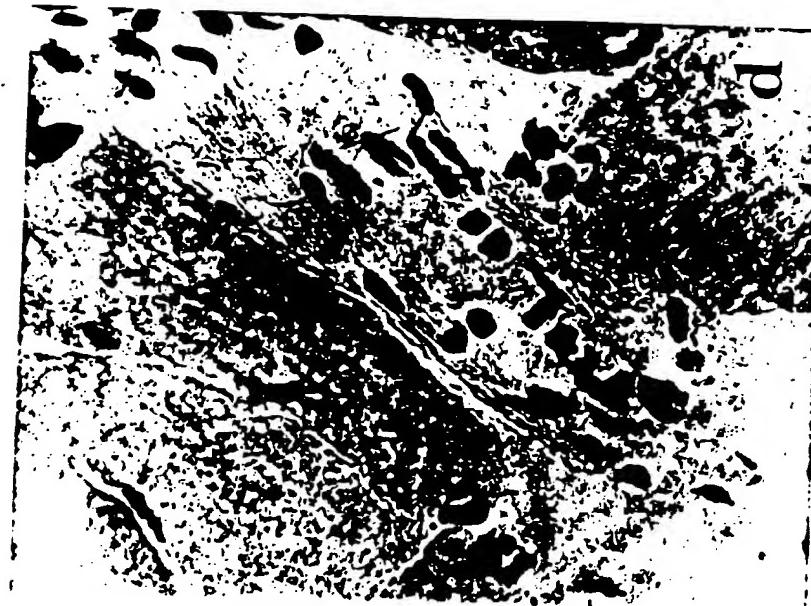


FIGURE 10D



FIGURE 10C

FIGURE 11A



FIGURE 11B

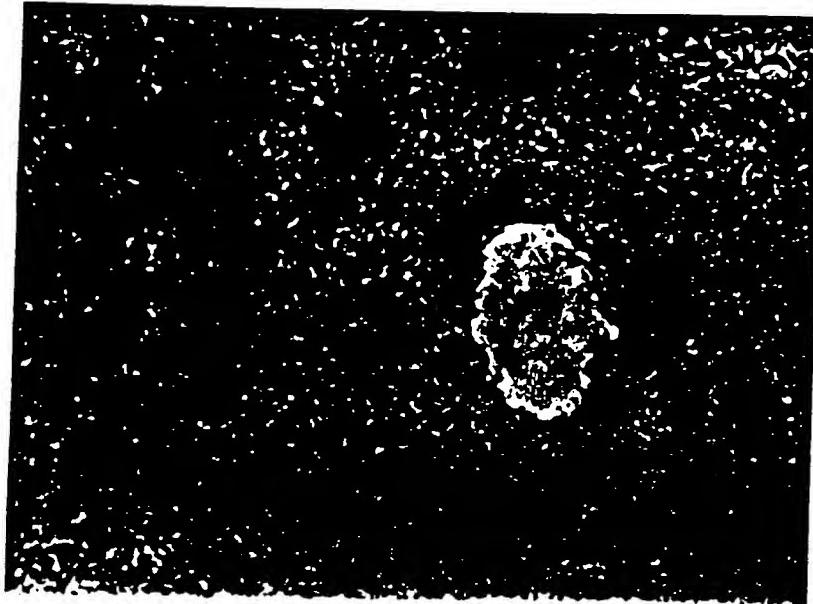
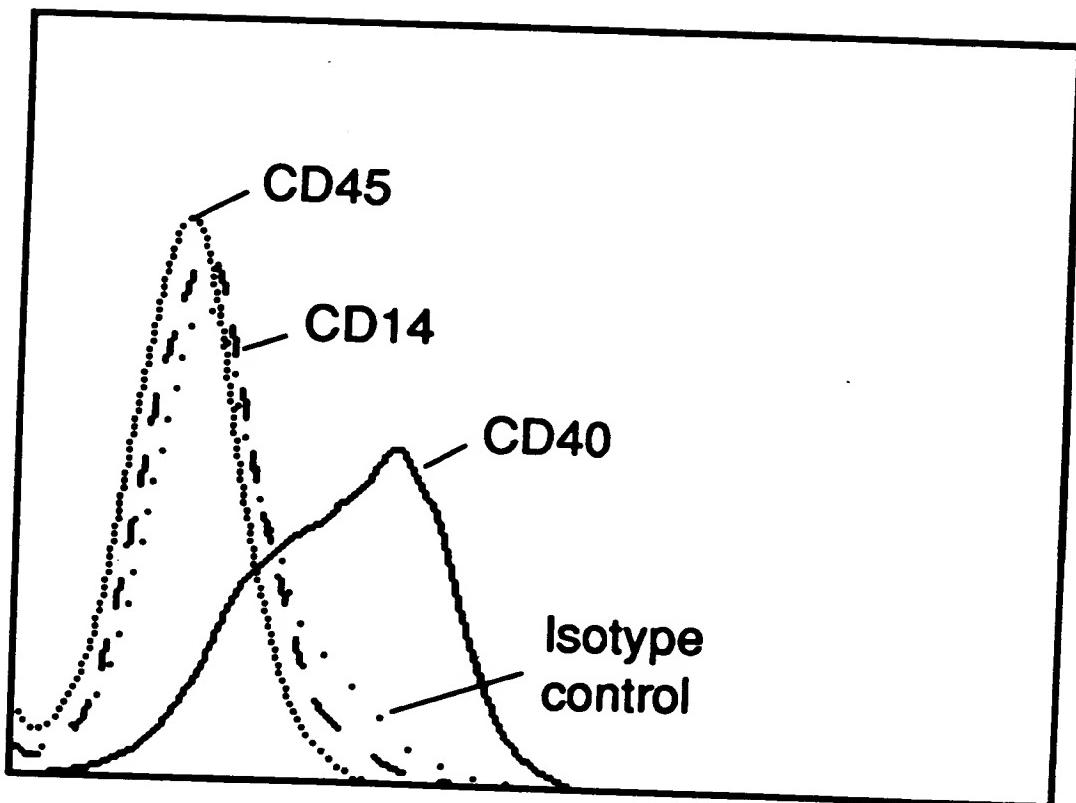


FIGURE 12



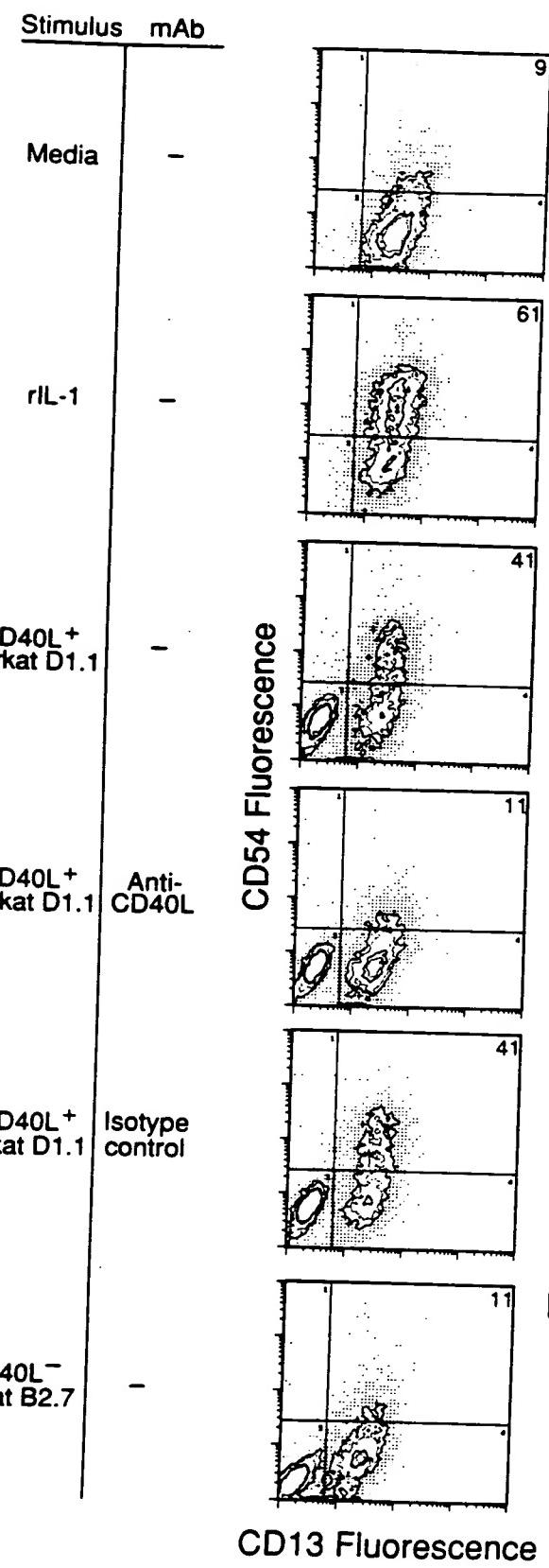
**FIGURE 13A****FIGURE 13B****FIGURE 13C****FIGURE 13D****FIGURE 13E****FIGURE 13F**

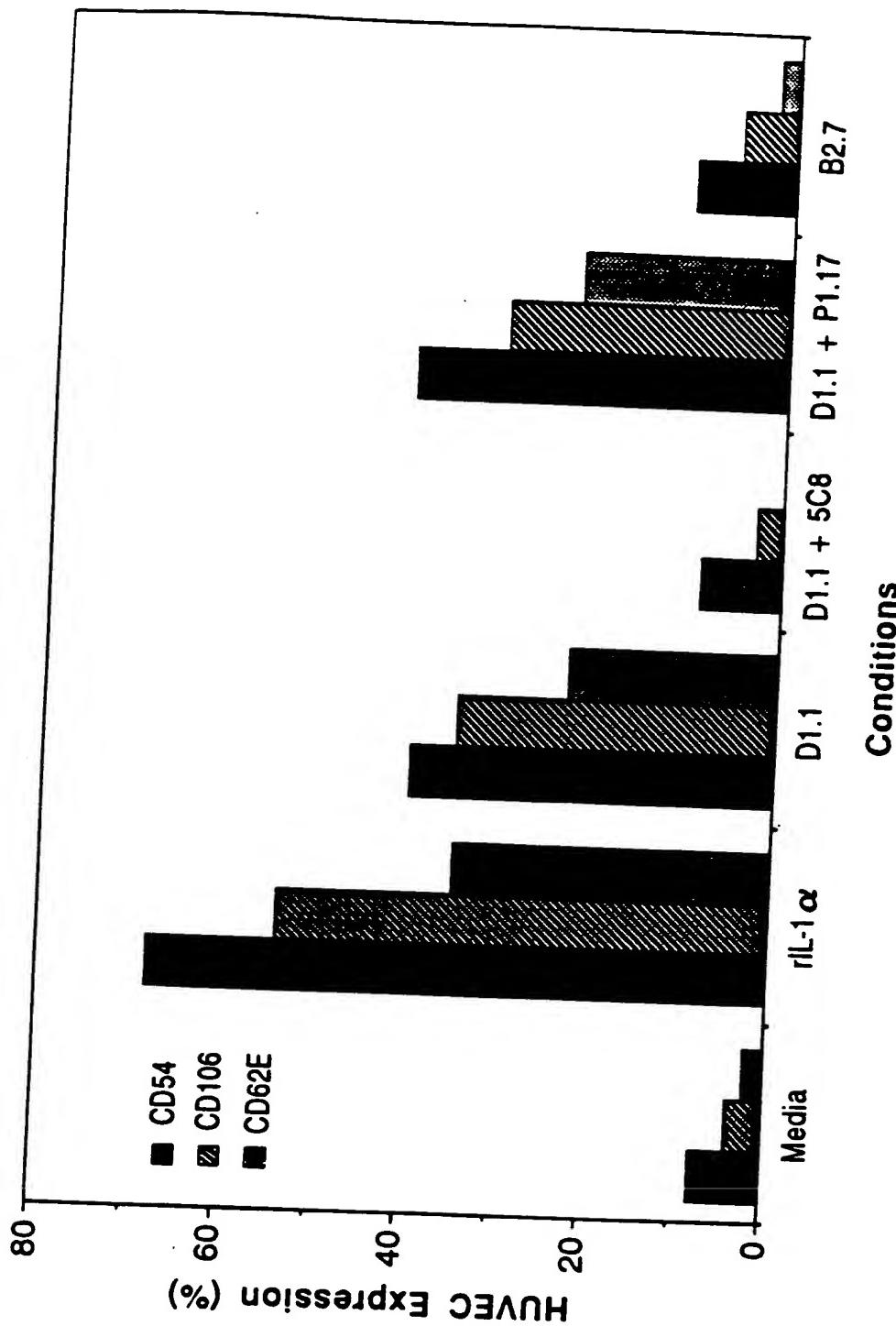
FIGURE 14

FIGURE 15A **FIGURE 15B** **FIGURE 15C**

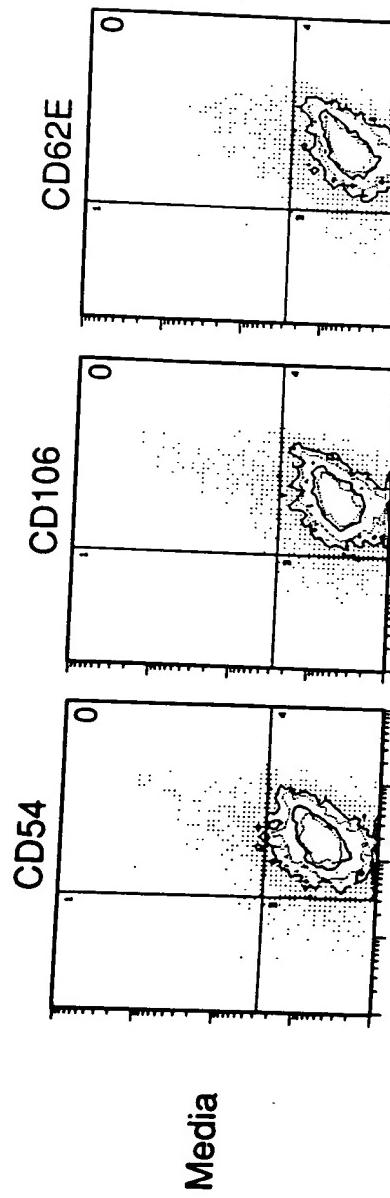


FIGURE 15D **FIGURE 15E** **FIGURE 15F**

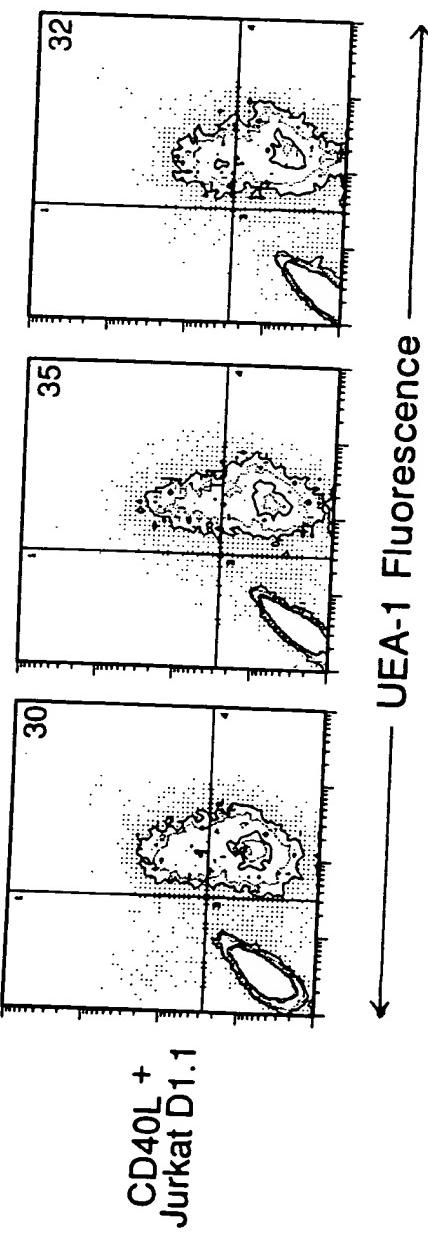


FIGURE 15G **FIGURE 15H** **FIGURE 15I**

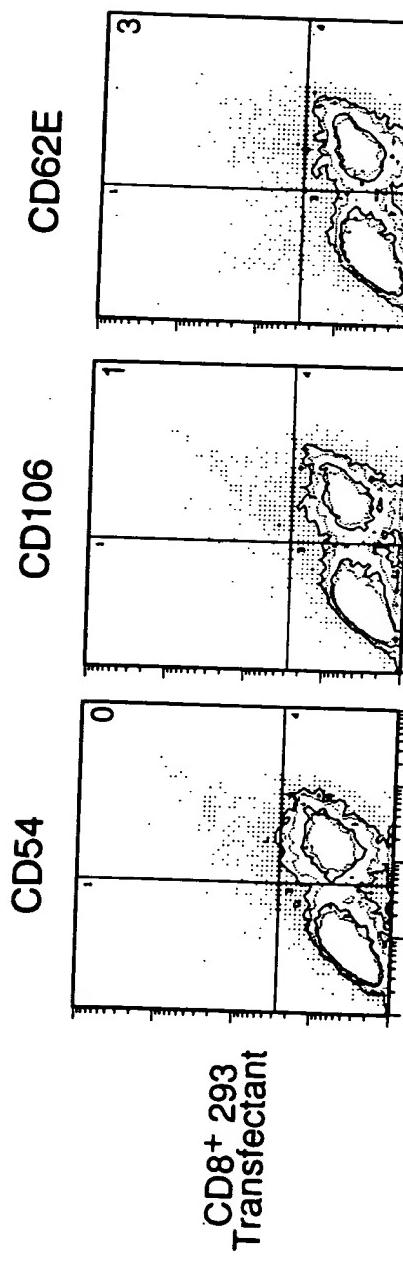


FIGURE 15J **FIGURE 15K** **FIGURE 15L**

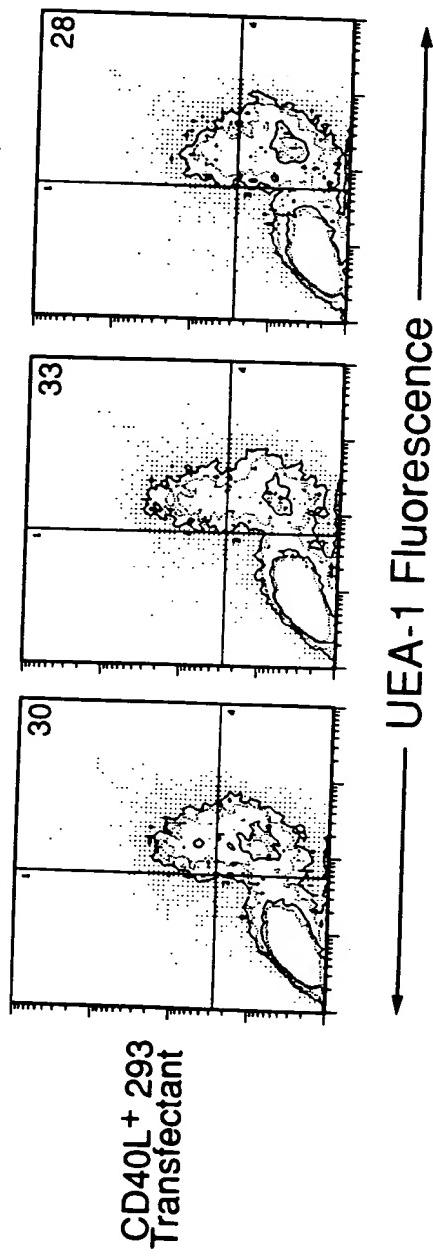


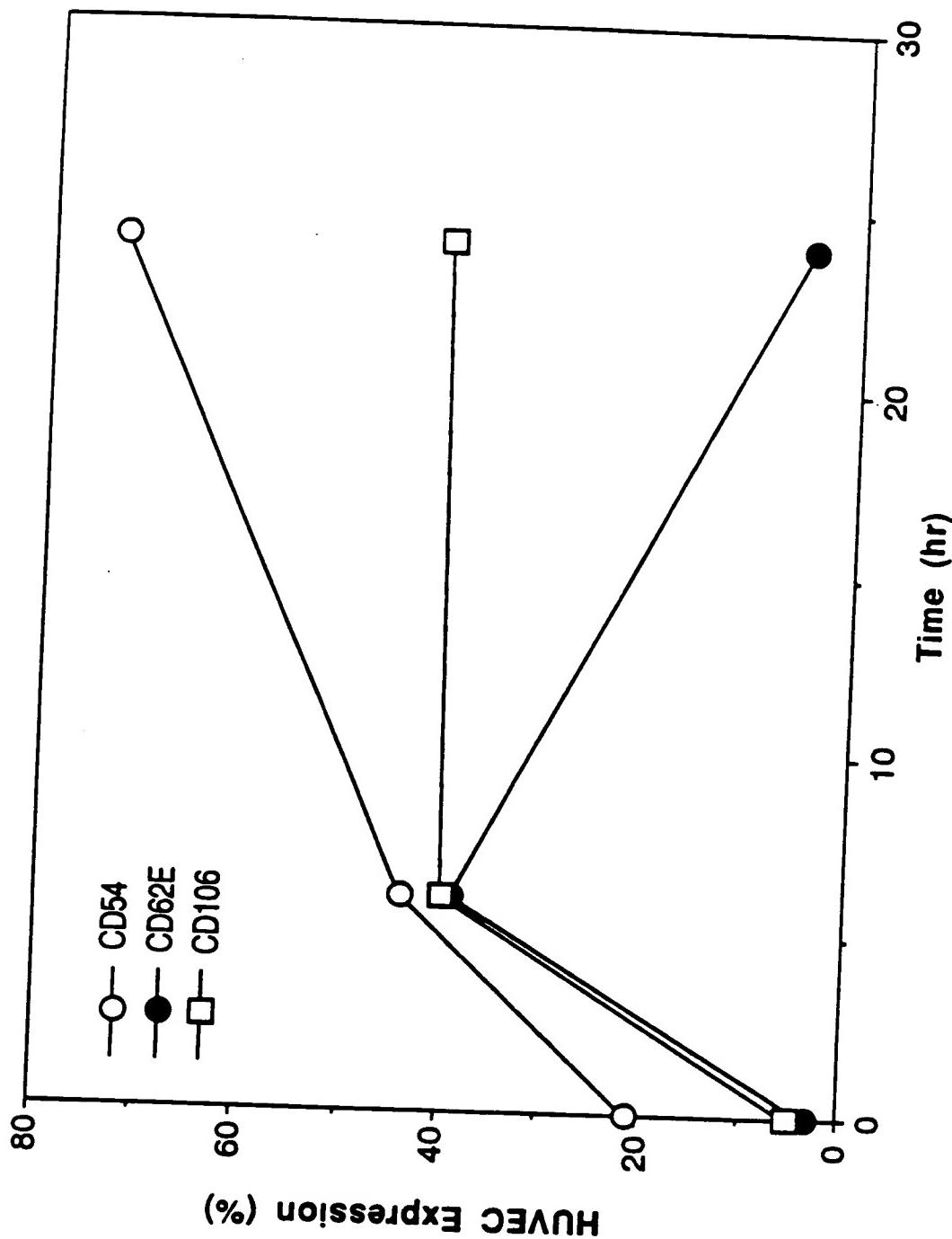
FIGURE 16A

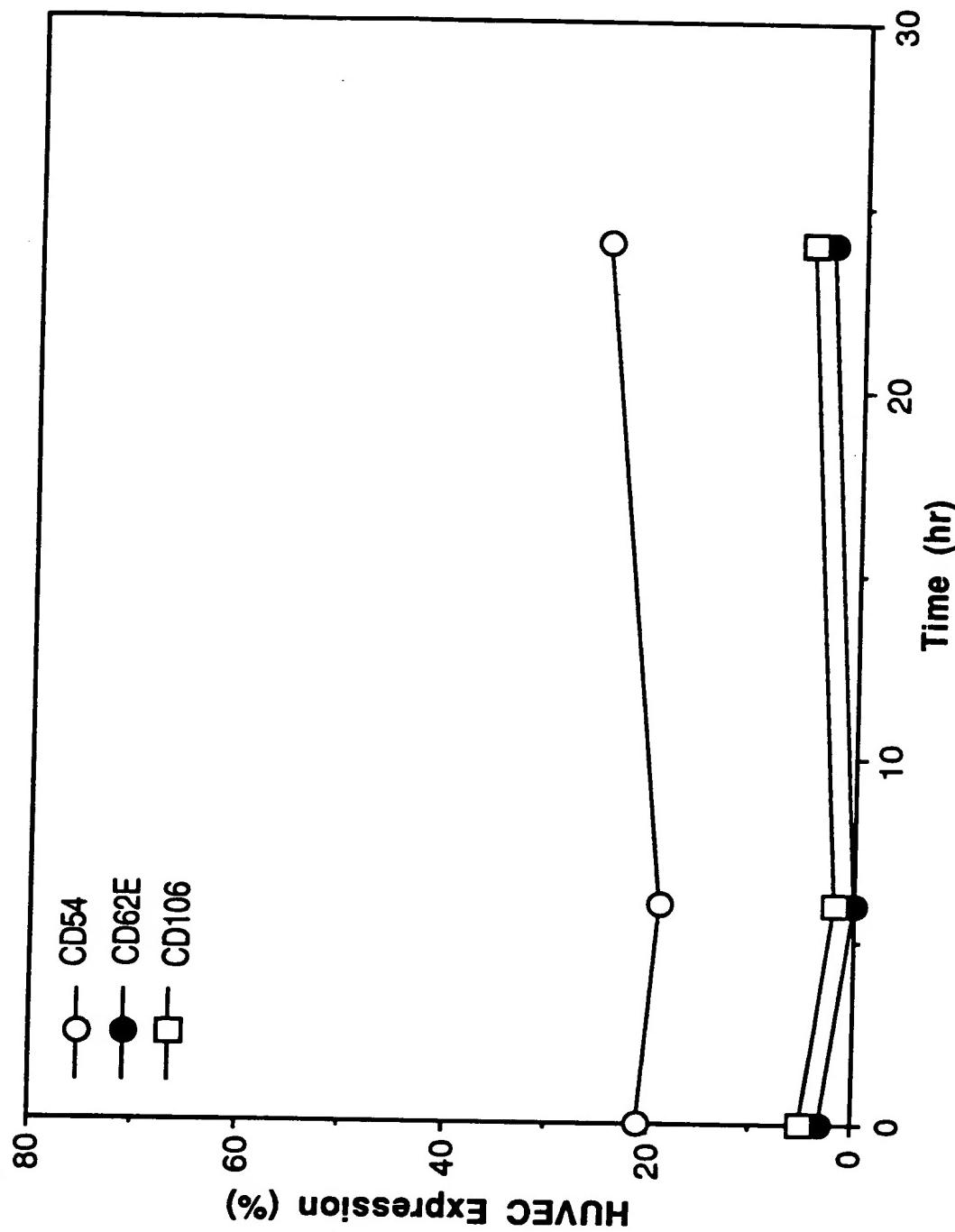
FIGURE 16B

FIGURE 17A

REM' RKS ATOMIC COORDINATES OF CD40L CRYSTAL STRUCTURE IN PDB FORMAT

CRYST	77.170	77.170	90.460	90.00	90.00	120.00	R3	
ATOM	1	N	GLY	116	-7.954	-16.144	22.488	1.00 64.71 A
ATOM	2	HT1	GLY	116	-7.087	-15.852	21.964	1.00 15.00 A
ATOM	3	HT2	GLY	116	-8.082	-17.142	22.242	1.00 15.00 A
ATOM	4	HT3	GLY	116	-8.630	-15.576	21.928	1.00 15.00 A
ATOM	5	CA	GLY	116	-7.927	-15.755	23.928	1.00 64.37 A
ATOM	6	C	GLY	116	-6.990	-16.621	24.780	1.00 64.34 A
ATOM	7	O	GLY	116	-6.968	-17.814	24.563	1.00 64.44 A
ATOM	8	N	ASP	117	-6.238	-16.043	25.740	1.00 64.04 A
ATOM	9	H	ASP	117	-5.617	-16.709	26.170	1.00 15.00 A
ATOM	10	CA	ASP	117	-6.284	-14.616	26.130	1.00 63.57 A
ATOM	11	CB	ASP	117	-5.711	-14.402	27.539	1.00 63.36 A
ATOM	12	CG	ASP	117	-6.518	-15.163	28.574	1.00 63.71 A
ATOM	13	OD1	ASP	117	-6.090	-16.247	28.965	1.00 63.24 A
ATOM	14	OD2	ASP	117	-7.566	-14.668	28.987	1.00 63.29 A
ATOM	15	C	ASP	117	-5.651	-13.585	25.184	1.00 63.31 A
ATOM	16	O	ASP	117	-6.039	-12.427	25.145	1.00 63.35 A
ATOM	17	N	GLN	118	-4.713	-14.090	24.379	1.00 62.72 A
ATOM	18	H	GLN	118	-4.450	-15.040	24.541	1.00 15.00 A
ATOM	19	CA	GLN	118	-4.097	-13.313	23.281	1.00 61.79 A
ATOM	20	CB	GLN	118	-2.918	-14.117	22.687	1.00 62.46 A
ATOM	21	CG	GLN	118	-3.047	-15.659	22.562	1.00 62.95 A
ATOM	22	CD	GLN	118	-4.277	-16.118	21.790	1.00 63.26 A
ATOM	23	OE1	GLN	118	-5.396	-16.000	22.277	1.00 63.43 A
ATOM	24	NE2	GLN	118	-4.044	-16.665	20.601	1.00 63.42 A
ATOM	25	HE21	GLN	118	-4.836	-16.715	19.975	1.00 15.00 A
ATOM	26	HE22	GLN	118	-3.151	-16.995	20.298	1.00 15.00 A
ATOM	27	C	GLN	118	-4.999	-12.841	22.128	1.00 60.59 A
ATOM	28	O	GLN	118	-4.887	-13.379	21.052	1.00 60.79 A
ATOM	29	N	ASN	119	-5.912	-11.901	22.445	1.00 58.61 A
ATOM	30	H	ASN	119	-5.917	-11.600	23.389	1.00 15.00 A
ATOM	31	CA	ASN	119	-6.689	-11.222	21.386	1.00 56.39 A
ATOM	32	CB	ASN	119	-7.947	-11.982	20.936	1.00 56.95 A
ATOM	33	CG	ASN	119	-7.652	-13.352	20.375	1.00 57.45 A
ATOM	34	OD1	ASN	119	-7.941	-14.303	21.084	1.00 58.50 A
ATOM	35	ND2	ASN	119	-7.005	-13.431	19.241	1.00 58.58 A
ATOM	36	HD21	ASN	119	-6.843	-12.617	18.646	1.00 15.00 A
ATOM	37	HD22	ASN	119	-6.740	-14.221	18.684	1.00 15.00 A
ATOM	38	C	ASN	119	-7.053	-9.724	21.571	1.00 53.62 A
ATOM	39	O	ASN	119	-6.746	-8.933	20.694	1.00 56.55 A
ATOM	40	N	PRO	120	-7.737	-9.288	22.698	1.00 50.17 A
ATOM	41	CD	PRO	120	-8.151	-10.129	23.810	1.00 51.90 A
ATOM	42	CA	PRO	120	-8.402	-7.945	22.818	1.00 48.19 A
ATOM	43	CB	PRO	120	-9.191	-8.008	24.117	1.00 47.42 A
ATOM	44	CG	PRO	120	-9.444	-9.493	24.321	1.00 51.93 A
ATOM	45	C	PRJ	120	-7.750	-6.524	22.657	1.00 45.59 A
ATOM	46	O	PRO	120	-8.187	-5.516	23.225	1.00 45.37 A
ATOM	47	N	GLN	121	-6.789	-6.458	21.721	1.00 38.52 A
ATOM	48	H	GLN	121	-6.287	-7.704	21.575	1.00 15.00 A
ATOM	49	CA	GLN	121	-6.733	-5.359	20.753	1.00 29.14 A
ATOM	50	CB	GLN	121	-5.454	-5.735	19.971	1.00 26.30 A
ATOM	51	CG	GLN	121	-5.128	-4.943	18.710	1.00 26.84 A
ATOM	52	CD	GLN	121	-4.923	-3.460	18.949	1.00 27.26 A
ATOM	53	OE1	GLN	121	-5.822	-2.668	18.709	1.00 28.66 A
ATOM	54	NE2	GLN	121	-3.717	-3.100	19.341	1.00 33.90 A
ATOM	55	HE21	GLN	121	2.883	-3.614	19.564	1.00 15.00 A
ATOM	56	HE22	GLN	121	-3.442	-2.138	19.204	1.00 15.00 A
ATOM	57	C	GLN	121	-8.065	-5.218	19.903	1.00 26.33 A
ATOM	58	O	GLN	121	-8.905	-6.097	19.834	1.00 21.41 A
ATOM	59	N	ILE	122	-8.288	-4.051	19.272	1.00 21.21 A

FIGURE 17B

ATOM	60	H	ILE	122	-7.600	-3.320	19.337	1.00	15.00
ATOM	61	CA	ILE	122	-9.383	-3.952	18.295	1.00	20.92
ATOM	62	CB	ILE	122	-10.238	-2.629	18.396	1.00	22.11
ATOM	63	CG2	ILE	122	-11.275	-2.428	17.272	1.00	21.61
ATOM	64	CG1	ILE	122	-11.076	-2.744	19.668	1.00	24.13
ATOM	65	CD1	ILE	122	-11.751	-1.440	20.073	1.00	23.04
ATOM	66	C	ILE	122	-8.833	-4.108	16.895	1.00	18.96
ATOM	67	O	ILE	122	-8.135	-3.243	16.379	1.00	17.93
ATOM	68	N	ALA	123	-9.159	-5.240	16.283	1.00	14.72
ATOM	69	H	ALA	123	-9.599	-5.978	16.805	1.00	15.00
ATOM	70	CA	ALA	123	-8.656	-5.401	14.917	1.00	14.29
ATOM	71	CB	ALA	123	-7.176	-5.868	14.903	1.00	12.83
ATOM	72	C	ALA	123	-9.483	-6.315	13.985	1.00	15.66
ATOM	73	O	ALA	123	-10.170	-7.261	14.323	1.00	13.58
ATOM	74	N	ALA	124	-9.388	-6.009	12.724	1.00	13.45
ATOM	75	H	ALA	124	-8.894	-5.185	12.456	1.00	15.00
ATOM	76	CA	ALA	124	-10.087	-6.920	11.836	1.00	14.55
ATOM	77	CB	ALA	124	-11.486	-6.368	11.446	1.00	11.37
ATOM	78	C	ALA	124	-9.271	-7.123	10.563	1.00	13.54
ATOM	79	O	ALA	124	-8.501	-6.274	10.129	1.00	16.29
ATOM	80	N	HIS	125	-9.544	-8.248	9.937	1.00	11.49
ATOM	81	H	HIS	125	-10.100	-8.900	10.426	1.00	15.00
ATOM	82	CA	HIS	125	-9.100	-8.524	8.590	1.00	11.51
ATOM	83	CB	HIS	125	-7.605	-8.908	8.614	1.00	11.43
ATOM	84	CG	HIS	125	-7.119	-9.116	7.205	1.00	7.41
ATOM	85	ND1	HIS	125	-6.750	-8.130	6.421	1.00	6.60
ATOM	86	HD1	HIS	125	-6.708	-7.168	6.621	1.00	15.00
ATOM	87	CD2	HIS	125	-7.075	-10.291	6.456	1.00	12.36
ATOM	88	NE2	HIS	125	-6.670	-9.971	5.234	1.00	6.20
ATOM	89	CE1	HIS	125	-6.462	-8.646	5.211	1.00	4.48
ATOM	90	C	HIS	125	-10.024	-9.570	7.931	1.00	12.63
ATOM	91	O	HIS	125	-10.324	-10.650	8.383	1.00	13.14
ATOM	92	N	VAL	126	-10.550	-9.129	6.806	1.00	15.65
ATOM	93	H	VAL	126	-10.169	-8.286	6.428	1.00	15.00
ATOM	94	CA	VAL	126	-11.743	-9.717	6.201	1.00	14.38
ATOM	95	CB	VAL	126	-12.877	-8.808	6.675	1.00	13.37
ATOM	96	CG1	VAL	126	-13.794	-9.722	7.379	1.00	12.60
ATOM	97	CG2	VAL	126	-13.449	-7.663	5.814	1.00	9.61
ATOM	98	C	VAL	126	-11.502	-9.971	4.685	1.00	16.03
ATOM	99	O	VAL	126	-10.684	-9.297	4.074	1.00	16.42
ATOM	100	N	ILE	127	-12.118	-11.013	4.136	1.00	15.99
ATOM	101	H	ILE	127	-12.807	-11.481	4.691	1.00	15.00
ATOM	102	CA	ILE	127	-11.651	-11.532	2.831	1.00	14.86
ATOM	103	CB	ILE	127	-11.414	-13.051	3.002	1.00	17.56
ATOM	104	CG2	ILE	127	-11.716	-13.910	1.765	1.00	17.17
ATOM	105	CG1	ILE	127	-9.972	-13.316	3.399	1.00	16.47
ATOM	106	CD1	ILE	127	-9.705	-12.992	4.864	1.00	19.64
ATOM	107	C	ILE	127	-12.691	-11.269	1.765	1.00	18.96
ATOM	108	O	ILE	127	-13.898	-11.391	2.016	1.00	20.01
ATOM	109	N	SER	128	-12.229	-10.882	0.581	1.00	17.54
ATOM	110	H	SER	128	-11.232	-10.871	0.382	1.00	15.00
ATOM	111	CA	SER	128	-13.274	-10.667	-0.437	1.00	15.55
ATOM	112	CB	SER	128	-12.664	-10.130	-1.706	1.00	18.16
ATOM	113	OG	SER	128	-12.205	-11.207	-2.574	1.00	19.90
ATOM	114	HG	SER	128	-11.832	-11.931	-2.029	1.00	15.00
ATOM	115	C	SER	128	-14.295	-11.761	-0.792	1.00	13.62
ATOM	116	O	SER	128	-14.052	-12.960	-0.832	1.00	8.98
ATOM	117	N	GLU	129	-15.492	-11.246	-1.027	1.00	13.36
ATOM	118	H	GLU	129	-15.661	-10.257	-0.937	1.00	15.00
ATOM	119	CA	GLU	129	-16.379	-12.024	-1.840	1.00	17.20

FIGURE 17C

ATOM	120	CB	GLU	129	-17.052	-13.117	-1.021	1.00	20.55
ATOM	121	CG	GLU	129	-18.092	-12.694	-0.036	1.00	17.92
ATOM	122	CD	GLU	129	-18.781	-13.951	0.376	1.00	21.98
ATOM	123	OE1	GLU	129	-19.997	-13.932	0.368	1.00	32.23
ATOM	124	OE2	GLU	129	-18.150	-14.938	0.734	1.00	33.12
ATOM	125	C	GLU	129	-17.371	-11.409	-2.809	1.00	17.71
ATOM	126	O	GLU	129	-17.972	-10.389	-2.553	1.00	21.59
ATOM	127	N	ALA	130	-17.550	-12.145	-3.914	1.00	20.52
ATOM	128	H	ALA	130	-17.136	-13.057	-3.923	1.00	15.00
ATOM	129	CA	ALA	130	-18.379	-11.649	-5.019	1.00	23.36
ATOM	130	CB	ALA	130	-18.424	-12.633	-6.208	1.00	19.66
ATOM	131	C	ALA	130	-19.811	-11.298	-4.570	1.00	26.86
ATOM	132	O	ALA	130	-20.519	-12.022	-3.869	1.00	29.40
ATOM	133	N	SER	131	-20.198	-10.086	-4.968	1.00	21.70
ATOM	134	H	SER	131	-19.515	-9.481	-5.410	1.00	15.00
ATOM	135	CA	SER	131	-21.592	-9.782	-4.732	1.00	20.04
ATOM	136	CB	SER	131	-21.829	-8.266	-4.787	1.00	20.65
ATOM	137	OG	SER	131	-23.182	-8.001	-4.435	1.00	15.24
ATOM	138	HG	SER	131	-23.329	-7.069	-4.559	1.00	15.00
ATOM	139	C	SER	131	-22.546	-10.501	-5.668	1.00	17.15
ATOM	140	O	SER	131	-22.236	-10.853	-6.786	1.00	14.30
ATOM	141	N	SER	132	-23.756	-10.731	-5.187	1.00	20.15
ATOM	142	H	SER	132	-23.967	-10.586	-4.209	1.00	15.00
ATOM	143	CA	SER	132	-24.674	-11.250	-6.218	1.00	21.62
ATOM	144	CB	SER	132	-25.266	-12.616	-5.893	1.00	16.00
ATOM	145	OG	SER	132	-26.203	-12.324	-4.894	1.00	23.84
ATOM	146	HG	SER	132	-26.016	-12.944	-4.179	1.00	15.00
ATOM	147	C	SER	132	-25.727	-10.268	-6.671	1.00	20.07
ATOM	148	O	SER	132	-26.535	-10.544	-7.547	1.00	20.27
ATOM	149	N	LYS	133	-25.606	-9.063	-6.118	1.00	21.87
ATOM	150	H	LYS	133	-24.904	-8.969	-5.397	1.00	15.00
ATOM	151	CA	LYS	133	-26.406	-7.916	-6.517	1.00	19.23
ATOM	152	CB	LYS	133	-27.024	-7.309	-5.256	1.00	23.08
ATOM	153	CG	LYS	133	-27.684	-8.364	-4.354	1.00	21.07
ATOM	154	CD	LYS	133	-29.174	-8.110	-4.320	1.00	27.36
ATOM	155	CE	LYS	133	-29.939	-7.884	-5.670	1.00	30.56
ATOM	156	NZ	LYS	133	-31.323	-7.515	-5.345	1.00	21.56
ATOM	157	HZ1	LYS	133	-31.862	-7.351	-6.218	1.00	15.00
ATOM	158	HZ2	LYS	133	-31.753	-8.299	-4.811	1.00	15.00
ATOM	159	HZ3	LYS	133	-31.333	-6.654	-4.760	1.00	15.00
ATOM	160	C	LYS	133	-25.579	-6.876	-7.194	1.00	20.10
ATOM	161	O	LYS	133	-24.378	-6.801	-7.007	1.00	17.94
ATOM	162	N	THR	134	-26.260	-6.052	-7.983	1.00	22.95
ATOM	163	H	THR	134	-27.275	-6.130	-8.036	1.00	15.00
ATOM	164	CA	THR	134	-25.556	-4.879	-8.561	1.00	27.89
ATOM	165	CB	THR	134	-26.498	-4.274	-9.592	1.00	24.59
ATOM	166	OG1	THR	134	-26.540	-5.037	-10.792	1.00	24.32
ATOM	167	HG1	THR	134	-26.232	-4.411	-11.456	1.00	15.00
ATOM	168	CG2	THR	134	-26.044	-2.897	-9.968	1.00	22.97
ATOM	169	C	THR	134	-24.987	-3.798	-7.559	1.00	32.51
ATOM	170	O	THR	134	-25.658	-3.461	-6.603	1.00	38.43
ATOM	171	N	THR	135	-23.717	-3.352	-7.690	1.00	35.98
ATOM	172	H	THR	135	-23.292	-3.555	-8.585	1.00	15.00
ATOM	173	CA	THR	135	-22.964	-3.469	-6.386	1.00	36.02
ATOM	174	CB	THR	135	-21.575	-4.276	-6.534	1.00	36.01
ATOM	175	OG1	THR	135	-21.645	-5.388	-7.488	1.00	30.60
ATOM	176	HG1	THR	135	-22.255	-6.094	-7.312	1.00	15.00
ATOM	177	CG2	THR	135	-20.866	-4.776	-5.264	1.00	35.55
ATOM	178	C	THR	135	-22.949	-2.266	-5.404	1.00	30.25
ATOM	179	O	THR	135	-23.541	-2.348	-4.331	1.00	28.35

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FIGURE 17D

ATOM	180	N	SER	136	-22.294	-1.146	-5.776	1.00	23.29	A
ATOM	181	H	SER	136	-22.828	-0.357	-5.460	1.00	15.00	A
ATOM	182	CA	SER	136	-20.857	-1.051	-6.143	1.00	23.04	A
ATOM	183	CB	SER	136	-20.560	0.187	-6.965	1.00	21.03	A
ATOM	184	OG	SER	136	-20.624	1.261	-6.043	1.00	28.21	A
ATOM	185	HG	SER	136	-19.815	1.793	-6.008	1.00	15.00	A
ATOM	186	C	SER	136	-19.853	-1.090	-4.958	1.00	21.77	A
ATOM	187	O	SER	136	-18.630	-1.096	-5.080	1.00	21.94	A
ATOM	188	N	VAL	137	-20.452	-1.227	-3.752	1.00	24.03	A
ATOM	189	H	VAL	137	-21.440	-1.063	-3.705	1.00	15.00	A
ATOM	190	CA	VAL	137	-19.699	-1.632	-2.570	1.00	19.65	A
ATOM	191	CB	VAL	137	-20.218	-1.010	-1.248	1.00	21.14	A
ATOM	192	CG1	VAL	137	-20.419	-1.907	-0.058	1.00	18.16	A
ATOM	193	CG2	VAL	137	-21.322	-0.026	-1.442	1.00	13.49	A
ATOM	194	C	VAL	137	-19.370	-3.116	-2.473	1.00	17.15	A
ATOM	195	O	VAL	137	-20.209	-3.969	-2.593	1.00	16.69	A
ATOM	196	N	LEU	138	-18.077	-3.344	-2.271	1.00	15.84	A
ATOM	197	H	LEU	138	-17.502	-2.528	-2.246	1.00	15.00	A
ATOM	198	CA	LEU	138	-17.507	-4.667	-1.938	1.00	18.21	A
ATOM	199	CB	LEU	138	-15.962	-4.530	-1.791	1.00	13.60	A
ATOM	200	CG	LEU	138	-15.273	-3.854	-2.998	1.00	16.09	A
ATOM	201	CD1	LEU	138	-15.923	-4.379	-4.300	1.00	20.35	A
ATOM	202	CD2	LEU	138	-13.710	-3.936	-2.982	1.00	12.34	A
ATOM	203	C	LEU	138	-18.170	-5.480	-0.772	1.00	16.29	A
ATOM	204	O	LEU	138	-18.498	-4.986	0.301	1.00	12.97	A
ATOM	205	N	GLN	139	-18.345	-6.768	-1.035	1.00	13.04	A
ATOM	206	H	GLN	139	-18.052	-7.078	-1.960	1.00	15.00	A
ATOM	207	CA	GLN	139	-18.757	-7.658	0.013	1.00	15.32	A
ATOM	208	CB	GLN	139	-19.847	-8.678	-0.481	1.00	13.99	A
ATOM	209	CG	GLN	139	-21.068	-7.960	-1.113	1.00	20.85	A
ATOM	210	CD	GLN	139	-21.872	-7.022	-0.193	1.00	22.04	A
ATOM	211	OE1	GLN	139	-22.343	-7.439	0.878	1.00	25.45	A
ATOM	212	NE2	GLN	139	-21.963	-5.739	-0.618	1.00	17.74	A
ATOM	213	HE21	GLN	139	-22.697	-5.181	-0.206	1.00	15.00	A
ATOM	214	HE22	GLN	139	-21.460	-5.326	-1.374	1.00	15.00	A
ATOM	215	C	GLN	139	-17.527	-8.383	0.541	1.00	14.26	A
ATOM	216	O	GLN	139	-16.554	-8.640	-0.144	1.00	14.40	A
ATOM	217	N	TRP	140	-17.647	-8.780	1.805	1.00	12.80	A
ATOM	218	H	TRP	140	-18.433	-8.447	2.297	1.00	15.00	A
ATOM	219	CA	TRP	140	-16.542	-9.500	2.463	1.00	14.03	A
ATOM	220	CB	TRP	140	-15.813	-8.623	3.483	1.00	14.18	A
ATOM	221	CG	TRP	140	-15.467	-7.291	2.823	1.00	8.44	A
ATOM	222	CD2	TRP	140	-14.379	-6.966	1.941	1.00	9.01	A
ATOM	223	CE2	TRP	140	-14.549	-5.625	1.482	1.00	8.40	A
ATOM	224	CE3	TRP	140	-13.215	-7.688	1.581	1.00	10.14	A
ATOM	225	CD1	TRP	140	-16.225	-6.137	2.863	1.00	11.29	A
ATOM	226	NE1	TRP	140	-15.710	-5.150	2.077	1.00	14.27	A
ATOM	227	HE1	TRP	140	-16.121	-4.268	2.010	1.00	15.00	A
ATOM	228	CZ2	TRP	140	-13.640	-5.009	0.590	1.00	8.16	A
ATOM	229	CZ3	TRP	140	-12.292	-7.069	0.713	1.00	13.90	A
ATOM	230	CH2	TRP	140	-12.497	-5.749	0.215	1.00	12.11	A
ATOM	231	C	TRP	140	-17.016	-10.701	3.170	1.00	14.34	A
ATOM	232	O	TRP	140	-18.193	-10.862	3.392	1.00	16.00	A
ATOM	233	N	ALA	141	-16.082	-11.528	3.558	1.00	14.80	A
ATOM	234	H	ALA	141	-15.133	-11.377	3.294	1.00	15.00	A
ATOM	235	CA	ALA	141	-16.489	-12.617	4.394	1.00	15.27	A
ATOM	236	CB	ALA	141	-16.504	-13.920	3.583	1.00	16.97	A
ATOM	237	C	ALA	141	-15.585	-12.761	5.607	1.00	15.90	A
ATOM	238	O	ALA	141	-14.453	-12.338	5.550	1.00	14.25	A
ATOM	239	N	GLU	142	-16.068	-13.366	6.688	1.00	19.74	A

FIGURE 17E

ATOM	240	H	GLU	142	-17.055	-13.574	6.688	1.00	15.00	A
ATOM	241	CA	GLU	142	-15.149	-13.759	7.731	1.00	25.93	A
ATOM	242	CB	GLU	142	-15.794	-13.910	9.117	1.00	21.75	A
ATOM	243	CG	GLU	142	-15.716	-12.456	9.647	1.00	24.05	A
ATOM	244	CD	GLU	142	-16.749	-12.087	10.711	1.00	26.61	A
ATOM	245	OE1	GLU	142	-17.908	-11.888	10.361	1.00	34.72	A
ATOM	246	OE2	GLU	142	-16.404	-11.984	11.886	1.00	30.07	A
ATOM	247	C	GLU	142	-14.200	-14.797	7.193	1.00	30.07	A
ATOM	248	O	GLU	142	-13.156	-14.349	6.737	1.00	33.25	A
ATOM	249	N	LYS	143	-14.577	-16.080	7.084	1.00	41.84	A
ATOM	250	H	LYS	143	-15.432	-16.384	7.492	1.00	34.17	A
ATOM	251	CA	LYS	143	-13.882	-16.854	5.980	1.00	15.00	A
ATOM	252	CB	LYS	143	-14.673	-16.603	4.681	1.00	35.31	A
ATOM	253	CG	LYS	143	-14.300	-17.505	3.531	1.00	37.64	A
ATOM	254	CD	LYS	143	-15.022	-17.284	2.202	1.00	50.37	A
ATOM	255	CE	LYS	143	-14.686	-16.047	1.357	1.00	49.23	A
ATOM	256	NZ	LYS	143	-15.632	-16.097	0.221	1.00	51.67	A
ATOM	257	HZ1	LYS	143	-15.333	-15.445	-0.534	1.00	15.00	A
ATOM	258	HZ2	LYS	143	-15.680	-17.061	-0.177	1.00	15.00	A
ATOM	259	HZ3	LYS	143	-16.564	-15.833	0.585	1.00	15.00	A
ATOM	260	C	LYS	143	-12.330	-16.979	5.637	1.00	32.80	A
ATOM	261	O	LYS	143	-11.831	-18.041	5.276	1.00	35.64	A
ATOM	262	N	GLY	144	-11.522	-15.923	5.637	1.00	28.26	A
ATOM	263	H	GLY	144	-11.718	-14.995	5.910	1.00	15.00	A
ATOM	264	CA	GLY	144	-10.243	-16.458	5.194	1.00	32.94	A
ATOM	265	C	GLY	144	-9.178	-16.862	6.180	1.00	29.93	A
ATOM	266	O	GLY	144	-9.345	-17.454	7.205	1.00	24.67	A
ATOM	267	N	TYR	145	-8.069	-16.270	5.815	1.00	26.37	A
ATOM	268	H	TYR	145	-8.160	-15.729	4.966	1.00	15.00	A
ATOM	269	CA	TYR	145	-7.027	-16.002	6.777	1.00	27.61	A
ATOM	270	CB	TYR	145	-5.708	-15.877	5.947	1.00	37.54	A
ATOM	271	CG	TYR	145	-5.962	-15.774	4.456	1.00	50.95	A
ATOM	272	CD1	TYR	145	-5.682	-14.633	3.706	1.00	53.22	A
ATOM	273	CE1	TYR	145	-6.313	-14.377	2.468	1.00	60.28	A
ATOM	274	CD2	TYR	145	-6.591	-16.847	3.791	1.00	53.11	A
ATOM	275	CE2	TYR	145	-7.207	-16.699	2.551	1.00	56.30	A
ATOM	276	CZ	TYR	145	-7.162	-15.430	1.873	1.00	61.12	A
ATOM	277	OH	TYR	145	-7.812	-15.119	0.665	1.00	62.63	A
ATOM	278	HH	TYR	145	-8.575	-15.686	0.401	1.00	15.00	A
ATOM	279	C	TYR	145	-7.532	-14.762	7.620	1.00	22.41	A
ATOM	280	O	TYR	145	-7.000	-13.677	7.650	1.00	22.68	A
ATOM	281	N	TYR	146	-8.731	-14.884	8.196	1.00	20.39	A
ATOM	282	H	TYR	146	-8.935	-15.824	8.509	1.00	15.00	A
ATOM	283	CA	TYR	146	-9.423	-13.700	8.725	1.00	20.40	A
ATOM	284	CB	TYR	146	-10.886	-13.673	8.306	1.00	22.53	A
ATOM	285	CG	TYR	146	-11.710	-14.460	9.286	1.00	23.02	A
ATOM	286	CD1	TYR	146	-11.635	-15.873	9.236	1.00	26.99	A
ATOM	287	CE1	TYR	146	-12.254	-16.623	10.239	1.00	25.44	A
ATOM	288	CD2	TYR	146	-12.477	-13.766	10.236	1.00	23.45	A
ATOM	289	CE2	TYR	146	-13.150	-14.520	11.205	1.00	26.81	A
ATOM	290	CZ	TYR	146	-13.007	-15.937	11.204	1.00	27.40	A
ATOM	291	OH	TYR	146	-13.647	-16.689	12.170	1.00	31.91	A
ATOM	292	HH	TYR	146	-12.911	-17.080	12.676	1.00	15.00	A
ATOM	293	C	TYR	146	-9.291	-13.419	10.219	1.00	18.79	A
ATOM	294	O	TYR	146	-8.904	-14.232	11.012	1.00	16.13	A
ATOM	295	N	THR	147	-9.596	-12.169	10.556	1.00	17.54	A
ATOM	296	H	THR	147	-9.973	-11.607	9.830	1.00	15.00	A
ATOM	297	CA	THR	147	-9.432	-11.764	11.948	1.00	14.06	A
ATOM	298	CB	THR	147	-8.162	-10.875	12.182	1.00	13.66	A
ATOM	299	OG1	THR	147	-6.912	-11.505	11.856	1.00	12.56	A

FIGURE 17F

ATOM	300	HG1	THR	147	-6.934	-11.898	10.980	1.00	15.00	A
ATOM	301	CG2	THR	147	-8.025	-10.236	13.554	1.00	7.22	A
ATOM	302	C	THR	147	-10.619	-10.925	12.253	1.00	15.60	A
ATOM	303	O	THR	147	-11.044	-10.074	11.496	1.00	16.39	A
ATOM	304	N	MET	148	-11.144	-11.139	13.412	1.00	20.67	A
ATOM	305	H	MET	148	-10.838	-11.988	13.828	1.00	15.00	A
ATOM	306	CA	MET	148	-12.124	-10.311	14.110	1.00	19.71	A
ATOM	307	CB	MET	148	-13.546	-10.702	13.705	1.00	17.89	A
ATOM	308	CG	MET	148	-14.541	-9.580	14.019	1.00	13.53	A
ATOM	309	SD	MET	148	-14.492	-8.149	12.952	1.00	14.69	A
ATOM	310	CE	MET	148	-14.566	-8.928	11.333	1.00	10.10	A
ATOM	311	C	MET	148	-11.915	-10.282	15.639	1.00	21.49	A
ATOM	312	O	MET	148	-12.594	-10.905	16.436	1.00	22.98	A
ATOM	313	N	SER	149	-10.955	-9.412	16.055	1.00	20.58	A
ATOM	314	H	SER	149	-10.516	-8.786	15.406	1.00	15.00	A
ATOM	315	CA	SER	149	-10.388	-9.698	17.419	1.00	19.11	A
ATOM	316	CB	SER	149	-9.174	-8.860	17.792	1.00	12.17	A
ATOM	317	OG	SER	149	-9.540	-7.513	17.975	1.00	14.10	A
ATOM	318	HG	SER	149	-9.571	-7.487	18.934	1.00	15.00	A
ATOM	319	C	SER	149	-11.203	-9.844	18.727	1.00	22.19	A
ATOM	320	O	SER	149	-10.728	-10.267	19.772	1.00	22.95	A
ATOM	321	N	ASN	150	-12.456	-9.322	18.631	1.00	22.71	A
ATOM	322	H	ASN	150	-12.782	-9.247	17.688	1.00	15.00	A
ATOM	323	CA	ASN	150	-13.361	-9.236	19.764	1.00	20.32	A
ATOM	324	CB	ASN	150	-12.734	-8.446	20.955	1.00	21.56	A
ATOM	325	CG	ASN	150	-12.343	-6.962	20.706	1.00	20.71	A
ATOM	326	OD1	ASN	150	-13.059	-6.187	20.119	1.00	17.81	A
ATOM	327	ND2	ASN	150	-11.222	-6.485	21.271	1.00	23.86	A
ATOM	328	HD21	ASN	150	-11.035	-5.521	21.092	1.00	15.00	A
ATOM	329	HD22	ASN	150	-10.670	-7.109	21.821	1.00	15.00	A
ATOM	330	C	ASN	150	-14.644	-8.657	19.256	1.00	20.60	A
ATOM	331	O	ASN	150	-14.718	-8.130	18.148	1.00	20.56	A
ATOM	332	N	ASN	151	-15.637	-8.713	20.149	1.00	23.49	A
ATOM	333	H	ASN	151	-15.455	-9.124	21.038	1.00	15.00	A
ATOM	334	CA	ASN	151	-16.974	-8.080	19.823	1.00	24.71	A
ATOM	335	CB	ASN	151	-18.130	-8.645	20.712	1.00	28.30	A
ATOM	336	CG	ASN	151	-17.959	-8.271	22.173	1.00	33.23	A
ATOM	337	OD1	ASN	151	-17.075	-7.562	22.606	1.00	39.79	A
ATOM	338	ND2	ASN	151	-18.782	-8.838	23.011	1.00	38.32	A
ATOM	339	HD21	ASN	151	-18.553	-8.524	23.928	1.00	15.00	A
ATOM	340	HD22	ASN	151	-19.495	-9.465	22.733	1.00	15.00	A
ATOM	341	C	ASN	151	-17.172	-6.531	19.645	1.00	22.53	A
ATOM	342	O	ASN	151	-18.254	-6.048	19.374	1.00	21.32	A
ATOM	343	N	LEU	152	-16.066	-5.762	19.859	1.00	23.00	A
ATOM	344	H	LEU	152	-15.247	-6.289	20.070	1.00	15.00	A
ATOM	345	CA	LEU	152	-15.924	-4.335	19.525	1.00	18.87	A
ATOM	346	CB	LEU	152	-14.830	-3.700	20.325	1.00	21.77	A
ATOM	347	CG	LEU	152	-14.981	-3.999	21.806	1.00	24.80	A
ATOM	348	CD1	LEU	152	-16.390	-3.645	22.316	1.00	22.82	A
ATOM	349	CD2	LEU	152	-13.847	-3.256	22.556	1.00	23.56	A
ATOM	350	C	LEU	152	-15.565	-3.993	18.094	1.00	17.34	A
ATOM	351	O	LEU	152	-15.590	-2.840	17.708	1.00	13.39	A
ATOM	352	N	VAL	153	-15.267	-5.054	17.309	1.00	18.65	A
ATOM	353	H	VAL	153	-15.156	-5.962	17.716	1.00	15.00	A
ATOM	354	CA	VAL	153	-15.439	-4.910	15.849	1.00	16.81	A
ATOM	355	CB	VAL	153	-14.138	-5.021	14.980	1.00	15.33	A
ATOM	356	CG1	VAL	153	-12.908	-5.718	15.562	1.00	21.22	A
ATOM	357	CG2	VAL	153	-13.775	-3.757	14.287	1.00	16.95	A
ATOM	358	C	VAL	153	-16.405	-5.964	15.301	1.00	13.48	A
ATOM	359	O	VAL	153	-16.363	-7.116	15.647	1.00	13.06	A

FIGURE 17G

ATOM	360	N	THR	154	-17.207	-5.546	14.358	1.00	12.06	A
ATOM	361	H	THR	154	-17.313	-4.568	14.215	1.00	15.00	A
ATOM	362	CA	THR	154	-17.903	-6.600	13.615	1.00	16.26	A
ATOM	363	CB	THR	154	-19.366	-6.747	14.157	1.00	19.51	A
ATOM	364	CG1	THR	154	-19.995	-5.459	14.205	1.00	19.31	A
ATOM	365	HG1	THR	154	-20.577	-5.508	14.949	1.00	15.00	A
ATOM	366	CG2	THR	154	-19.502	-7.288	15.571	1.00	21.62	A
ATOM	367	C	THR	154	-17.997	-6.252	12.107	1.00	18.12	A
ATOM	368	O	THR	154	-17.992	-5.110	11.605	1.00	16.55	A
ATOM	369	N	LEU	155	-18.101	-7.324	11.357	1.00	16.77	A
ATOM	370	H	LEU	155	-18.056	-8.202	11.791	1.00	15.00	A
ATOM	371	CA	LEU	155	-18.514	-7.198	9.967	1.00	17.10	A
ATOM	372	CB	LEU	155	-17.829	-8.353	9.204	1.00	20.04	A
ATOM	373	CG	LEU	155	-17.524	-8.428	7.692	1.00	20.81	A
ATOM	374	CD1	LEU	155	-17.822	-7.159	6.908	1.00	17.03	A
ATOM	375	CD2	LEU	155	-17.912	-9.810	7.139	1.00	12.42	A
ATOM	376	C	LEU	155	-20.055	-7.187	9.904	1.00	20.71	A
ATOM	377	O	LEU	155	-20.712	-8.163	10.217	1.00	18.01	A
ATOM	378	N	GLU	156	-20.593	-5.995	9.561	1.00	19.51	A
ATOM	379	H	GLU	156	-19.959	-5.230	9.440	1.00	15.00	A
ATOM	380	CA	GLU	156	-22.036	-5.888	9.413	1.00	21.95	A
ATOM	381	CB	GLU	156	-22.641	-4.631	10.033	1.00	18.95	A
ATOM	382	CG	GLU	156	-22.098	-4.412	11.436	1.00	27.68	A
ATOM	383	CD	GLU	156	-22.721	-5.194	12.587	1.00	31.62	A
ATOM	384	OE1	GLU	156	-23.347	-6.248	12.367	1.00	33.40	A
ATOM	385	OE2	GLU	156	-22.532	-4.721	13.724	1.00	35.00	A
ATOM	386	C	GLU	156	-22.457	-5.966	7.964	1.00	25.36	A
ATOM	387	O	GLU	156	-21.958	-5.298	7.077	1.00	22.70	A
ATOM	388	N	ASN	157	-23.437	-6.808	7.696	1.00	30.92	A
ATOM	389	H	ASN	157	-23.594	-7.590	8.300	1.00	15.00	A
ATOM	390	CA	ASN	157	-23.804	-6.620	6.300	1.00	33.31	A
ATOM	391	CB	ASN	157	-23.856	-7.970	5.614	1.00	31.69	A
ATOM	392	CG	ASN	157	-23.669	-7.693	4.168	1.00	27.70	A
ATOM	393	CD1	ASN	157	-23.397	-6.593	3.810	1.00	25.89	A
ATOM	394	ND2	ASN	157	-23.893	-8.640	3.275	1.00	41.69	A
ATOM	395	HD21	ASN	157	-24.069	-9.603	3.467	1.00	15.00	A
ATOM	396	HD22	ASN	157	-23.745	-8.295	2.340	1.00	15.00	A
ATOM	397	C	ASN	157	-24.988	-5.658	6.118	1.00	35.08	A
ATOM	398	O	ASN	157	-26.107	-5.949	6.499	1.00	37.06	A
ATOM	399	N	GLY	158	-24.746	-4.443	5.560	1.00	40.03	A
ATOM	400	H	GLY	158	-25.601	-3.952	5.429	1.00	15.00	A
ATOM	401	CA	GLY	158	-23.422	-3.887	5.121	1.00	38.11	A
ATOM	402	C	GLY	158	-23.062	-3.720	3.617	1.00	37.48	A
ATOM	403	O	GLY	158	-23.890	-3.108	2.950	1.00	41.11	A
ATOM	404	N	LYS	159	-21.867	-4.220	3.135	1.00	32.75	A
ATOM	405	H	LYS	159	-21.904	-4.134	2.130	1.00	15.00	A
ATOM	406	CA	LYS	159	-20.828	-4.928	3.962	1.00	27.83	A
ATOM	407	CB	LYS	159	-20.317	-6.122	3.217	1.00	28.17	A
ATOM	408	CG	LYS	159	-19.734	-7.168	4.069	1.00	20.48	A
ATOM	409	CD	LYS	159	-20.533	-8.426	4.192	1.00	29.61	A
ATOM	410	CE	LYS	159	-20.577	-9.191	2.869	1.00	40.41	A
ATOM	411	NZ	LYS	159	-20.796	-10.663	2.986	1.00	40.88	A
ATOM	412	HZ1	LYS	159	-20.739	-11.087	2.035	1.00	15.00	A
ATOM	413	HZ2	LYS	159	-20.070	-11.087	3.600	1.00	15.00	A
ATOM	414	HZ3	LYS	159	-21.738	-10.848	3.389	1.00	15.00	A
ATOM	415	C	LYS	159	-19.688	-4.065	4.463	1.00	26.08	A
ATOM	416	O	LYS	159	-19.023	-3.369	3.696	1.00	28.01	A
ATOM	417	N	GLN	160	-19.683	-3.990	5.807	1.00	18.90	A
ATOM	418	H	GLN	160	-20.211	-4.674	6.319	1.00	15.00	A
ATOM	419	CA	GLN	160	-18.922	-2.929	6.464	1.00	13.89	A

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ATOM	420	CB	GLN	160	-19.778	-1.694	6.611	1.00	16.79	A
ATOM	421	CG	GLN	160	-20.881	-1.896	7.633	1.00	18.34	A
ATOM	422	CD	GLN	160	-22.133	-1.166	7.193	1.00	23.97	A
ATOM	423	OE1	GLN	160	-23.088	-0.970	7.893	1.00	31.18	A
ATOM	424	NE2	GLN	160	-22.257	-0.771	5.948	1.00	28.16	A
ATOM	425	HE21	GLN	160	-23.194	-0.420	5.928	1.00	15.00	A
ATOM	426	HE22	GLN	160	-21.624	-0.780	5.186	1.00	15.00	A
ATOM	427	C	GLN	160	-18.313	-3.309	7.777	1.00	12.87	A
ATOM	428	O	GLN	160	-18.838	-4.151	8.498	1.00	14.78	A
ATOM	429	N	LEU	161	-17.187	-2.637	8.085	1.00	11.22	A
ATOM	430	H	LEU	161	-16.767	-2.124	7.340	1.00	15.00	A
ATOM	431	CA	LEU	161	-16.583	-2.870	9.405	1.00	9.71	A
ATOM	432	CB	LEU	161	-15.052	-2.939	9.390	1.00	4.67	A
ATOM	433	CG	LEU	161	-14.438	-4.060	8.559	1.00	7.30	A
ATOM	434	CD1	LEU	161	-14.511	-5.447	9.207	1.00	10.80	A
ATOM	435	CD2	LEU	161	-12.964	-3.794	8.389	1.00	5.48	A
ATOM	436	C	LEU	161	-17.082	-1.836	10.412	1.00	10.17	A
ATOM	437	O	LEU	161	-16.826	-0.657	10.341	1.00	13.36	A
ATOM	438	N	THR	162	-17.848	-2.338	11.375	1.00	16.94	A
ATOM	439	H	THR	162	-18.153	-3.279	11.251	1.00	15.00	A
ATOM	440	CA	THR	162	-18.317	-1.480	12.493	1.00	16.14	A
ATOM	441	CB	THR	162	-19.807	-1.769	12.640	1.00	13.33	A
ATOM	442	OG1	THR	162	-20.339	-1.707	11.308	1.00	16.73	A
ATOM	443	HG1	THR	162	-21.211	-1.254	11.343	1.00	15.00	A
ATOM	444	CG2	THR	162	-20.553	-0.832	13.562	1.00	15.01	A
ATOM	445	C	THR	162	-17.531	-1.547	13.842	1.00	13.28	A
ATOM	446	O	THR	162	-17.358	-2.587	14.449	1.00	20.21	A
ATOM	447	N	VAL	163	-16.994	-0.437	14.282	1.00	14.22	A
ATOM	448	H	VAL	163	-16.859	0.243	13.567	1.00	15.00	A
ATOM	449	CA	VAL	163	-16.326	-0.358	15.586	1.00	15.72	A
ATOM	450	CB	VAL	163	-15.038	0.426	15.428	1.00	11.82	A
ATOM	451	CG1	VAL	163	-15.191	1.944	15.368	1.00	9.87	A
ATOM	452	CG2	VAL	163	-14.229	-0.124	14.245	1.00	18.88	A
ATOM	453	C	VAL	163	-17.193	0.283	16.706	1.00	17.93	A
ATOM	454	O	VAL	163	-18.001	1.180	16.453	1.00	20.25	A
ATOM	455	N	LYS	164	-17.037	-0.232	17.925	1.00	15.44	A
ATOM	456	H	LYS	164	-16.254	-0.858	18.020	1.00	15.00	A
ATOM	457	CA	LYS	164	-17.856	0.138	19.109	1.00	17.33	A
ATOM	458	CB	LYS	164	-18.351	-1.150	19.807	1.00	19.58	A
ATOM	459	CG	LYS	164	-19.214	-1.885	18.759	1.00	23.56	A
ATOM	460	CD	LYS	164	-19.417	-3.410	18.851	1.00	28.85	A
ATOM	461	CE	LYS	164	-20.039	-4.047	17.554	1.00	33.81	A
ATOM	462	NZ	LYS	164	-19.428	-3.681	16.227	1.00	18.98	A
ATOM	463	HZ1	LYS	164	-19.195	-2.667	16.222	1.00	15.00	A
ATOM	464	HZ2	LYS	164	-18.552	-4.223	16.092	1.00	15.00	A
ATOM	465	HZ3	LYS	164	-20.084	-3.888	15.445	1.00	15.00	A
ATOM	466	C	LYS	164	-17.193	1.099	20.056	1.00	15.14	A
ATOM	467	O	LYS	164	-17.712	1.588	21.048	1.00	17.72	A
ATOM	468	N	ARG	165	-15.992	1.428	19.621	1.00	17.49	A
ATOM	469	H	ARG	165	-15.550	0.838	18.932	1.00	15.00	A
ATOM	470	CA	ARG	165	-15.184	2.415	20.325	1.00	20.18	A
ATOM	471	CB	ARG	165	-13.985	1.806	21.049	1.00	24.65	A
ATOM	472	CG	ARG	165	-14.363	0.833	22.126	1.00	29.54	A
ATOM	473	CD	ARG	165	-13.274	1.077	23.145	1.00	38.82	A
ATOM	474	NE	ARG	165	-13.719	1.998	24.186	1.00	43.41	A
ATOM	475	HE	ARG	165	-14.331	1.671	24.908	1.00	15.00	A
ATOM	476	CZ	ARG	165	-13.190	3.250	24.362	1.00	44.06	A
ATOM	477	NH1	ARG	165	-13.406	3.765	25.562	1.00	41.25	A
ATOM	478	HH11	ARG	165	-13.054	4.683	25.763	1.00	15.00	A
ATOM	479	HH12	ARG	165	-13.919	3.249	26.250	1.00	15.00	A

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ATOM	480	NH2	ARG	165	-12.485	3.946	23.425	1.00	31.65	A
ATOM	481	HH21	ARG	165	-12.133	4.860	23.623	1.00	15.00	A
ATOM	482	HH22	ARG	165	-12.322	3.527	22.530	1.00	15.00	A
ATOM	483	C	ARG	165	-14.608	3.554	19.510	1.00	17.70	A
ATOM	484	O	ARG	165	-14.018	3.450	18.441	1.00	18.26	A
ATOM	485	N	GLN	166	-14.763	4.687	20.151	1.00	17.43	A
ATOM	486	H	GLN	166	-15.263	4.614	21.007	1.00	15.00	A
ATOM	487	CA	GLN	166	-14.138	5.911	19.698	1.00	19.00	A
ATOM	488	CB	GLN	166	-14.613	7.021	20.610	1.00	23.79	A
ATOM	489	CG	GLN	166	-14.067	8.409	20.386	1.00	34.06	A
ATOM	490	CD	GLN	166	-15.178	9.399	20.659	1.00	45.91	A
ATOM	491	OE1	GLN	166	-15.102	10.492	20.135	1.00	53.64	A
ATOM	492	NE2	GLN	166	-16.202	9.046	21.418	1.00	44.10	A
ATOM	493	HE21	GLN	166	-16.906	9.765	21.443	1.00	15.00	A
ATOM	494	HE22	GLN	166	-16.577	8.287	21.935	1.00	15.00	A
ATOM	495	C	GLN	166	-12.649	5.881	19.644	1.00	17.48	A
ATOM	496	O	GLN	166	-12.029	5.378	20.561	1.00	18.13	A
ATOM	497	N	GLY	167	-12.160	6.478	18.565	1.00	14.83	A
ATOM	498	H	GLY	167	-12.750	6.836	17.850	1.00	15.00	A
ATOM	499	CA	GLY	167	-10.728	6.711	18.557	1.00	16.28	A
ATOM	500	C	GLY	167	-10.044	6.685	17.204	1.00	16.48	A
ATOM	501	O	GLY	167	-10.674	6.601	16.162	1.00	19.19	A
ATOM	502	N	LEU	168	-8.720	6.735	17.209	1.00	17.06	A
ATOM	503	H	LEU	168	-8.311	6.890	18.120	1.00	15.00	A
ATOM	504	CA	LEU	168	-7.925	6.625	15.992	1.00	16.60	A
ATOM	505	CB	LEU	168	-6.600	7.343	16.289	1.00	21.87	A
ATOM	506	CG	LEU	168	-6.247	8.745	15.716	1.00	22.69	A
ATOM	507	CD1	LEU	168	-5.119	9.410	16.539	1.00	21.20	A
ATOM	508	CD2	LEU	168	-7.436	9.617	15.361	1.00	18.38	A
ATOM	509	C	LEU	168	-7.686	5.136	15.604	1.00	14.84	A
ATOM	510	O	LEU	168	-7.282	4.278	16.392	1.00	15.89	A
ATOM	511	N	TYR	169	-7.943	4.873	14.300	1.00	10.57	A
ATOM	512	H	TYR	169	-8.313	5.659	13.807	1.00	15.00	A
ATOM	513	CA	TYR	169	-7.683	3.572	13.656	1.00	5.27	A
ATOM	514	CB	TYR	169	-8.989	3.014	13.230	1.00	5.83	A
ATOM	515	CG	TYR	169	-9.857	2.620	14.423	1.00	6.94	A
ATOM	516	CD1	TYR	169	-10.524	3.598	15.168	1.00	7.40	A
ATOM	517	CE1	TYR	169	-11.390	3.193	16.218	1.00	7.77	A
ATOM	518	CD2	TYR	169	-10.016	1.255	14.744	1.00	8.89	A
ATOM	519	CE2	TYR	169	-10.850	0.841	15.804	1.00	9.40	A
ATOM	520	CZ	TYR	169	-11.563	1.827	16.534	1.00	10.39	A
ATOM	521	OH	TYR	169	-12.443	1.410	17.534	1.00	7.99	A
ATOM	522	HH	TYR	169	-13.009	2.117	17.800	1.00	15.00	A
ATOM	523	C	TYR	169	-6.810	3.642	12.390	1.00	6.72	A
ATOM	524	O	TYR	169	-6.917	4.498	11.557	1.00	9.12	A
ATOM	525	N	TYR	170	-5.899	2.722	12.228	1.00	9.53	A
ATOM	526	H	TYR	170	-5.806	2.081	12.986	1.00	15.00	A
ATOM	527	CA	TYR	170	-5.313	2.511	10.899	1.00	10.01	A
ATOM	528	CB	TYR	170	-3.967	1.797	11.044	1.00	7.46	A
ATOM	529	CG	TYR	170	-3.259	1.636	9.679	1.00	13.45	A
ATOM	530	CD1	TYR	170	-2.680	2.766	9.052	1.00	12.66	A
ATOM	531	CE1	TYR	170	-2.213	2.658	7.738	1.00	10.18	A
ATOM	532	CD2	TYR	170	-3.304	0.385	9.057	1.00	10.90	A
ATOM	533	CE2	TYR	170	-2.891	0.303	7.730	1.00	8.68	A
ATOM	534	CZ	TYR	170	-2.331	1.419	7.124	1.00	9.97	A
ATOM	535	OH	TYR	170	-1.774	1.286	5.859	1.00	17.50	A
ATOM	536	HH	TYR	170	-1.886	0.404	5.514	1.00	15.00	A
ATOM	537	C	TYR	170	-6.279	1.610	10.073	1.00	10.40	A
ATOM	538	O	TYR	170	-6.679	0.500	10.421	1.00	12.52	A
ATOM	539	N	ILE	171	-6.704	2.174	8.968	1.00	12.16	A

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ATOM	540	H	ILE	171	-6.475	3.135	8.808	1.00	15.00	A
ATOM	541	CA	ILE	171	-7.608	1.430	8.138	1.00	9.37	A
ATOM	542	CB	ILE	171	-9.070	1.990	8.317	1.00	11.21	A
ATOM	543	CG2	ILE	171	-9.326	3.501	8.677	1.00	17.27	A
ATOM	544	CG1	ILE	171	-10.046	1.564	7.214	1.00	13.33	A
ATOM	545	CD1	ILE	171	-10.647	0.250	7.619	1.00	17.53	A
ATOM	546	C	ILE	171	-7.074	1.234	6.694	1.00	8.34	A
ATOM	547	O	ILE	171	-6.453	2.088	6.082	1.00	6.96	A
ATOM	548	N	TYR	172	-7.286	0.005	6.216	1.00	11.07	A
ATOM	549	H	TYR	172	-7.809	-0.624	6.786	1.00	15.00	A
ATOM	550	CA	TYR	172	-6.708	-0.378	4.922	1.00	15.60	A
ATOM	551	CB	TYR	172	-5.332	-1.082	5.037	1.00	14.32	A
ATOM	552	CG	TYR	172	-5.389	-2.397	5.796	1.00	9.21	A
ATOM	553	CD1	TYR	172	-5.342	-2.402	7.216	1.00	12.52	A
ATOM	554	CE1	TYR	172	-5.607	-3.620	7.901	1.00	10.88	A
ATOM	555	CD2	TYR	172	-5.565	-3.586	5.050	1.00	12.66	A
ATOM	556	CE2	TYR	172	-5.829	-4.800	5.740	1.00	15.83	A
ATOM	557	CZ	TYR	172	-5.822	-4.808	7.164	1.00	11.94	A
ATOM	558	OH	TYR	172	-5.995	-6.002	7.820	1.00	12.17	A
ATOM	559	HH	TYR	172	-6.433	-5.843	8.657	1.00	15.00	A
ATOM	560	C	TYR	172	-7.605	-1.276	4.106	1.00	16.85	A
ATOM	561	O	TYR	172	-8.346	-2.057	4.692	1.00	14.06	A
ATOM	562	N	ALA	173	-7.448	-1.141	2.776	1.00	16.29	A
ATOM	563	H	ALA	173	-6.751	-0.490	2.503	1.00	15.00	A
ATOM	564	CA	ALA	173	-7.940	-2.152	1.836	1.00	15.11	A
ATOM	565	CB	ALA	173	-9.300	-1.725	1.292	1.00	12.08	A
ATOM	566	C	ALA	173	-7.007	-2.537	0.653	1.00	15.86	A
ATOM	567	O	ALA	173	-6.147	-1.806	0.191	1.00	14.20	A
ATOM	568	N	GLN	174	-7.244	-3.714	0.109	1.00	16.56	A
ATOM	569	H	GLN	174	-7.774	-4.389	0.620	1.00	15.00	A
ATOM	570	CA	GLN	174	-6.470	-4.119	-1.070	1.00	19.25	A
ATOM	571	CB	GLN	174	-5.582	-5.292	-0.832	1.00	21.99	A
ATOM	572	CG	GLN	174	-4.205	-4.727	-1.030	1.00	30.99	A
ATOM	573	CD	GLN	174	-3.174	-5.845	-0.979	1.00	34.25	A
ATOM	574	OE1	GLN	174	-2.308	-5.899	-0.105	1.00	32.91	A
ATOM	575	NE2	GLN	174	-3.268	-6.699	-2.014	1.00	31.50	A
ATOM	576	HE21	GLN	174	-2.668	-7.487	-1.970	1.00	15.00	A
ATOM	577	HE22	GLN	174	-3.973	-6.621	-2.714	1.00	15.00	A
ATOM	578	C	GLN	174	-7.413	-4.644	-2.114	1.00	19.20	A
ATOM	579	O	GLN	174	-8.285	-5.434	-1.880	1.00	20.03	A
ATOM	580	N	VAL	175	-7.291	-4.107	-3.301	1.00	19.28	A
ATOM	581	H	VAL	175	-6.594	-3.401	-3.400	1.00	15.00	A
ATOM	582	CA	VAL	175	-8.247	-4.500	-4.323	1.00	22.43	A
ATOM	583	CB	VAL	175	-9.319	-3.409	-4.644	1.00	21.41	A
ATOM	584	CG1	VAL	175	-10.146	-2.830	-3.495	1.00	20.17	A
ATOM	585	CG2	VAL	175	-10.268	-4.061	-5.639	1.00	22.88	A
ATOM	586	C	VAL	175	-7.508	-4.859	-5.615	1.00	24.56	A
ATOM	587	O	VAL	175	-6.928	-3.997	-6.301	1.00	23.28	A
ATOM	588	N	THR	176	-7.563	-6.180	-5.879	1.00	25.40	A
ATOM	589	H	THR	176	-7.994	-6.850	-5.250	1.00	15.00	A
ATOM	590	CA	THR	176	-7.086	-6.501	-7.222	1.00	24.46	A
ATOM	591	CB	THR	176	-5.844	-7.454	-7.256	1.00	24.78	A
ATOM	592	OG1	THR	176	-5.948	-8.650	-8.028	1.00	20.31	A
ATOM	593	HG1	THR	176	-5.250	-9.253	-7.796	1.00	15.00	A
ATOM	594	CG2	THR	176	-5.329	-7.711	-5.867	1.00	17.07	A
ATOM	595	C	THR	176	-8.178	-6.700	-8.272	1.00	25.44	A
ATOM	596	O	THR	176	-9.326	-7.043	-7.995	1.00	26.86	A
ATOM	597	N	PHE	177	-7.855	-6.341	-9.506	1.00	22.44	A
ATOM	598	H	PHE	177	-6.920	-6.083	-9.732	1.00	15.00	A
ATOM	599	CA	PHE	177	-8.939	-6.511	-10.479	1.00	22.70	A

FIGURE 17K

ATOM	600	CB	PHE	177	-9.746	-5.194	-10.599	1.00	20.90	A
ATOM	601	CG	PHE	177	-8.813	-4.034	-10.927	1.00	22.51	A
ATOM	602	CD1	PHE	177	-8.771	-3.548	-12.252	1.00	22.11	A
ATOM	603	CD2	PHE	177	-8.011	-3.422	-9.920	1.00	21.87	A
ATOM	604	CE1	PHE	177	-8.041	-2.387	-12.550	1.00	20.53	A
ATOM	605	CE2	PHE	177	-7.289	-2.247	-10.204	1.00	20.44	A
ATOM	606	CZ	PHE	177	-7.376	-1.713	-11.500	1.00	22.79	A
ATOM	607	C	PHE	177	-8.381	-6.949	-11.800	1.00	22.14	A
ATOM	608	O	PHE	177	-7.219	-6.695	-12.072	1.00	21.60	A
ATOM	609	N	CYS	178	-9.210	-7.555	-12.625	1.00	24.52	A
ATOM	610	H	CYS	178	-10.146	-7.797	-12.370	1.00	15.00	A
ATOM	611	CA	CYS	178	-8.599	-7.849	-13.942	1.00	29.77	A
ATOM	612	CB	CYS	178	-8.501	-9.365	-14.214	1.00	32.06	A
ATOM	613	SG	CYS	178	-7.685	-9.731	-15.792	1.00	35.17	A
ATOM	614	C	CYS	178	-9.323	-7.146	-15.088	1.00	28.41	A
ATOM	615	O	CYS	178	-10.534	-7.247	-15.185	1.00	27.54	A
ATOM	616	N	SER	179	-8.589	-6.393	-15.910	1.00	28.86	A
ATOM	617	H	SER	179	-7.608	-6.271	-15.754	1.00	15.00	A
ATOM	618	CA	SER	179	-9.374	-5.454	-16.704	1.00	29.01	A
ATOM	619	CB	SER	179	-9.379	-4.118	-16.020	1.00	30.82	A
ATOM	620	OG	SER	179	-10.615	-3.492	-16.319	1.00	39.79	A
ATOM	621	HG	SER	179	-10.725	-2.812	-15.667	1.00	15.00	A
ATOM	622	C	SER	179	-9.063	-5.196	-18.165	1.00	31.16	A
ATOM	623	O	SER	179	-7.931	-4.953	-18.537	1.00	28.58	A
ATOM	624	N	ASN	180	-10.083	-5.255	-19.042	1.00	35.32	A
ATOM	625	H	ASN	180	-10.966	-5.700	-18.834	1.00	15.00	A
ATOM	626	CA	ASN	180	-9.782	-4.725	-20.366	1.00	34.74	A
ATOM	627	CB	ASN	180	-10.205	-5.554	-21.589	1.00	37.96	A
ATOM	628	CG	ASN	180	-9.650	-4.980	-22.896	1.00	37.12	A
ATOM	629	OD1	ASN	180	-10.058	-3.947	-23.356	1.00	40.66	A
ATOM	630	ND2	ASN	180	-8.619	-5.536	-23.456	1.00	35.85	A
ATOM	631	HD21	ASN	180	-8.343	-6.475	-23.306	1.00	15.00	A
ATOM	632	HD22	ASN	180	-8.153	-4.891	-24.065	1.00	15.00	A
ATOM	633	C	ASN	180	-10.197	-3.331	-20.588	1.00	36.96	A
ATOM	634	O	ASN	180	-11.314	-2.894	-20.433	1.00	37.89	A
ATOM	635	N	ARG	181	-9.147	-2.699	-21.068	1.00	41.95	A
ATOM	636	H	ARG	181	-6.363	-3.318	-21.141	1.00	15.00	A
ATOM	637	CA	ARG	181	-8.997	-1.313	-21.489	1.00	44.24	A
ATOM	638	CB	ARG	181	-7.563	-1.279	-22.026	1.00	43.43	A
ATOM	639	CG	ARG	181	-6.348	-1.638	-21.101	1.00	45.11	A
ATOM	640	CD	ARG	181	-6.235	-2.853	-20.134	1.00	40.68	A
ATOM	641	NE	ARG	181	-5.064	-2.772	-19.271	1.00	46.11	A
ATOM	642	HE	ARG	181	-4.991	-2.058	-18.578	1.00	15.00	A
ATOM	643	CZ	ARG	181	-4.024	-3.611	-19.432	1.00	49.77	A
ATOM	644	NH1	ARG	181	-2.886	-3.414	-18.790	1.00	54.33	A
ATOM	645	HH11	ARG	181	-2.113	-4.032	-18.918	1.00	15.00	A
ATOM	646	HH12	ARG	181	-2.807	-2.642	-18.161	1.00	15.00	A
ATOM	647	NH2	ARG	181	-4.085	-4.641	-20.247	1.00	54.26	A
ATOM	648	HH21	ARG	181	-3.286	-5.230	-20.354	1.00	15.00	A
ATOM	649	HH22	ARG	181	-4.918	-4.833	-20.761	1.00	15.00	A
ATOM	650	C	ARG	181	-10.049	-0.866	-22.499	1.00	47.10	A
ATOM	651	O	ARG	181	-10.979	-0.112	-22.227	1.00	49.20	A
ATOM	652	N	GLU	182	-9.895	-1.447	-23.690	1.00	49.64	A
ATOM	653	H	GLU	182	-9.201	-2.166	-23.775	1.00	15.00	A
ATOM	654	CA	GLU	182	-10.976	-1.385	-24.676	1.00	52.41	A
ATOM	655	CB	GLU	182	-10.437	-2.020	-25.970	1.00	56.93	A
ATOM	656	CG	GLU	182	-10.932	-1.418	-27.295	1.00	66.05	A
ATOM	657	CD	GLU	182	-10.758	0.116	-27.327	1.00	70.54	A
ATOM	658	OE1	GLU	182	-9.613	0.586	-27.442	1.00	72.98	A
ATOM	659	OE2	GLU	182	-11.778	0.830	-27.244	1.00	72.46	A

FIGURE 17L

ATOM	660	C	GLU	182	-12.398	-1.934	-24.304	1.00	53.00	A
ATOM	661	O	GLU	182	-13.379	-1.492	-24.862	1.00	54.27	A
ATOM	662	N	ALA	183	-12.505	-2.877	-23.335	1.00	52.34	A
ATOM	663	H	ALA	183	-11.676	-3.173	-22.865	1.00	15.00	A
ATOM	664	CA	ALA	183	-13.867	-3.258	-22.899	1.00	50.19	A
ATOM	665	CB	ALA	183	-13.855	-4.721	-22.447	1.00	45.02	A
ATOM	666	C	ALA	183	-14.562	-2.321	-21.867	1.00	50.66	A
ATOM	667	O	ALA	183	-15.712	-1.945	-21.990	1.00	47.77	A
ATOM	668	N	SER	184	-13.773	-1.888	-20.878	1.00	52.95	A
ATOM	669	H	SER	184	-12.826	-2.172	-20.991	1.00	15.00	A
ATOM	670	CA	SER	184	-14.228	-1.043	-19.729	1.00	56.78	A
ATOM	671	CB	SER	184	-13.384	-1.397	-18.481	1.00	53.58	A
ATOM	672	OG	SER	184	-13.975	-2.448	-17.721	1.00	47.46	A
ATOM	673	HG	SER	184	-13.291	-3.019	-17.388	1.00	15.00	A
ATOM	674	C	SER	184	-14.183	0.517	-19.880	1.00	59.95	A
ATOM	675	O	SER	184	-13.913	1.297	-18.964	1.00	65.25	A
ATOM	676	N	SER	185	-14.324	0.995	-21.131	1.00	60.08	A
ATOM	677	H	SER	185	-14.623	0.345	-21.831	1.00	15.00	A
ATOM	678	CA	SER	185	-13.825	2.375	-21.391	1.00	60.12	A
ATOM	679	CB	SER	185	-13.522	2.640	-22.869	1.00	60.49	A
ATOM	680	OG	SER	185	-12.243	2.098	-23.242	1.00	59.80	A
ATOM	681	HG	SER	185	-12.158	1.234	-22.833	1.00	15.00	A
ATOM	682	C	SER	185	-14.580	3.589	-20.885	1.00	59.59	A
ATOM	683	O	SER	185	-15.437	4.159	-21.543	1.00	60.08	A
ATOM	684	N	GLN	186	-14.200	3.990	-19.670	1.00	57.71	A
ATOM	685	H	GLN	186	-13.601	3.376	-19.153	1.00	15.00	A
ATOM	686	CA	GLN	186	-15.121	4.936	-18.993	1.00	57.00	A
ATOM	687	CB	GLN	186	-16.094	4.062	-18.175	1.00	58.66	A
ATOM	688	CG	GLN	186	-15.355	3.354	-17.050	1.00	59.69	A
ATOM	689	CD	GLN	186	-16.369	2.789	-16.088	1.00	59.92	A
ATOM	690	OE1	GLN	186	-17.270	3.513	-15.687	1.00	59.81	A
ATOM	691	NE2	GLN	186	-16.249	1.503	-15.787	1.00	59.63	A
ATOM	692	HE21	GLN	186	-15.492	0.948	-16.113	1.00	15.00	A
ATOM	693	HE22	GLN	186	-16.950	1.119	-15.168	1.00	15.00	A
ATOM	694	C	GLN	186	-14.758	6.290	-18.221	1.00	54.36	A
ATOM	695	O	GLN	186	-15.596	7.198	-18.298	1.00	53.98	A
ATOM	696	N	ALA	187	-13.566	6.424	-17.511	1.00	50.35	A
ATOM	697	H	ALA	187	-13.476	7.274	-16.970	1.00	15.00	A
ATOM	698	CA	ALA	187	-12.388	5.599	-17.832	1.00	43.26	A
ATOM	699	CB	ALA	187	-11.546	6.284	-18.918	1.00	38.95	A
ATOM	700	C	ALA	187	-11.456	4.882	-16.849	1.00	40.48	A
ATOM	701	O	ALA	187	-10.887	3.875	-17.295	1.00	43.24	A
ATOM	702	N	PRO	188	-11.210	5.383	-15.594	1.00	38.66	A
ATOM	703	CD	PRO	188	-11.543	6.687	-15.000	1.00	38.15	A
ATOM	704	CA	PRO	188	-10.220	4.665	-14.751	1.00	35.94	A
ATOM	705	CB	PRO	188	-9.395	5.813	-14.150	1.00	33.99	A
ATOM	706	CG	PRO	188	-10.377	7.000	-14.036	1.00	32.69	A
ATOM	707	C	PRO	188	-10.840	3.783	-13.683	1.00	33.66	A
ATOM	708	O	PRO	188	-11.885	4.062	-13.140	1.00	33.41	A
ATOM	709	N	PHE	189	-10.147	2.695	-13.346	1.00	28.66	A
ATOM	710	H	PHE	189	-9.260	2.508	-13.748	1.00	15.00	A
ATOM	711	CA	PHE	189	-10.721	2.013	-12.171	1.00	26.71	A
ATOM	712	CB	PHE	189	-10.122	0.601	-12.034	1.00	26.21	A
ATOM	713	CG	PHE	189	-10.671	-0.189	-10.849	1.00	22.92	A
ATOM	714	CD1	PHE	189	-10.126	0.005	-9.566	1.00	17.72	A
ATOM	715	CD2	PHE	189	-11.687	-1.155	-11.064	1.00	21.88	A
ATOM	716	CE1	PHE	189	-10.590	-0.815	-8.522	1.00	19.12	A
ATOM	717	CE2	PHE	189	-12.124	-1.995	-10.011	1.00	21.13	A
ATOM	718	CZ	PHE	189	-11.571	-1.806	-8.736	1.00	18.44	A
ATOM	719	C	PHE	189	-10.445	2.815	-10.909	1.00	27.14	A

FIGURE 17M

ATOM	720	O	PHE	199	-9.308	3.244	-10.706	1.00	28.72
ATOM	721	N	ILE	190	-11.468	2.964	-10.071	1.00	24.71
ATOM	722	H	ILE	190	-12.408	2.786	-10.388	1.00	15.00
ATOM	723	CA	ILE	190	-11.193	3.626	-8.788	1.00	24.03
ATOM	724	CB	ILE	190	-11.316	5.242	-8.743	1.00	26.86
ATOM	725	CG2	ILE	190	-11.892	5.979	-9.997	1.00	19.87
ATOM	726	CG1	ILE	190	-11.801	5.888	-7.424	1.00	22.54
ATOM	727	CD1	ILE	190	-12.819	7.012	-7.645	1.00	28.56
ATOM	728	C	ILE	190	-11.844	2.812	-7.656	1.00	21.97
ATOM	729	O	ILE	190	-12.891	2.197	-7.801	1.00	16.30
ATOM	730	N	ALA	191	-11.026	2.700	-6.590	1.00	17.21
ATOM	731	H	ALA	191	-10.124	3.124	-6.662	1.00	15.00
ATOM	732	CA	ALA	191	-11.501	2.195	-5.321	1.00	15.20
ATOM	733	CB	ALA	191	-10.730	0.928	-4.968	1.00	14.79
ATOM	734	C	ALA	191	-11.439	3.230	-4.206	1.00	17.11
ATOM	735	O	ALA	191	-10.467	3.961	-4.052	1.00	14.04
ATOM	736	N	SER	192	-12.511	3.245	-3.433	1.00	14.72
ATOM	737	H	SER	192	-13.277	2.694	-3.804	1.00	15.00
ATOM	738	CA	SER	192	-12.725	4.289	-2.423	1.00	16.69
ATOM	739	CB	SER	192	-13.931	5.144	-2.803	1.00	14.83
ATOM	740	OG	SER	192	-13.556	5.828	-3.994	1.00	21.23
ATOM	741	HG	SER	192	-14.367	5.966	-4.520	1.00	15.00
ATOM	742	C	SER	192	-12.980	3.682	-1.069	1.00	17.77
ATOM	743	O	SER	192	-13.753	2.738	-0.947	1.00	20.76
ATOM	744	N	LEU	193	-12.285	4.209	-0.038	1.00	15.56
ATOM	745	H	LEU	193	-11.681	4.959	-0.280	1.00	15.00
ATOM	746	CA	LEU	193	-12.510	3.761	1.366	1.00	13.27
ATOM	747	CB	LEU	193	-11.195	3.825	2.217	1.00	12.74
ATOM	748	CG	LEU	193	-11.051	3.141	3.604	1.00	14.37
ATOM	749	CD1	LEU	193	-12.272	2.354	4.116	1.00	14.67
ATOM	750	CD2	LEU	193	-10.274	3.986	4.622	1.00	12.64
ATOM	751	C	LEU	193	-13.497	4.748	1.911	1.00	11.22
ATOM	752	O	LEU	193	-13.188	5.912	1.903	1.00	12.22
ATOM	753	N	CYS	194	-14.652	4.326	2.310	1.00	13.66
ATOM	754	H	CYS	194	-14.828	3.347	2.276	1.00	15.00
ATOM	755	CA	CYS	194	-15.595	5.360	2.713	1.00	14.84
ATOM	756	CB	CYS	194	-16.915	5.409	1.918	1.00	17.58
ATOM	757	SG	CYS	194	-16.623	5.417	0.165	1.00	16.33
ATOM	758	C	CYS	194	-16.046	5.163	4.137	1.00	12.81
ATOM	759	O	CYS	194	-15.983	4.072	4.655	1.00	10.34
ATOM	760	N	LEU	195	-16.557	6.254	4.697	1.00	14.32
ATOM	761	H	LEU	195	-16.541	7.088	4.154	1.00	15.00
ATOM	762	CA	LEU	195	-17.039	6.291	6.076	1.00	14.89
ATOM	763	CB	LEU	195	-16.195	7.372	6.789	1.00	15.56
ATOM	764	CG	LEU	195	-16.571	7.680	8.242	1.00	15.56
ATOM	765	CD1	LEU	195	-15.932	8.967	8.762	1.00	13.72
ATOM	766	CD2	LEU	195	-16.463	6.448	9.154	1.00	17.25
ATOM	767	C	LEU	195	-18.546	6.544	6.209	1.00	13.54
ATOM	768	O	LEU	195	-19.038	7.521	5.705	1.00	14.56
ATOM	769	N	LYS	196	-19.238	5.667	6.905	1.00	16.36
ATOM	770	H	LYS	196	-18.719	4.875	7.197	1.00	15.00
ATOM	771	CA	LYS	196	-20.577	5.972	7.405	1.00	21.01
ATOM	772	CB	LYS	196	-21.475	4.726	7.146	1.00	22.66
ATOM	773	CG	LYS	196	-22.953	4.839	7.590	1.00	31.25
ATOM	774	CD	LYS	196	-23.364	4.915	9.104	1.00	40.25
ATOM	775	CE	LYS	196	-23.189	3.694	10.060	1.00	43.56
ATOM	776	NZ	LYS	196	-23.004	4.158	11.453	1.00	44.46
ATOM	777	HZ1	LYS	196	-22.182	4.799	11.467	1.00	15.00
ATOM	778	HZ2	LYS	196	-23.847	4.665	11.778	1.00	15.00
ATOM	779	HZ3	LYS	196	-22.807	3.334	12.066	1.00	15.00

FIGURE 17N

ATOM	750	C	LYS	196	-20.478	6.290	8.899	1.00	19.25
ATOM	781	O	LYS	196	-20.194	5.434	9.714	1.00	18.35
ATOM	782	N	SER	197	-20.564	7.534	9.272	1.00	20.63
ATOM	783	H	SER	197	-20.891	8.247	8.615	1.00	15.00
ATOM	784	CA	SER	197	-20.752	7.701	10.729	1.00	24.87
ATOM	785	CB	SER	197	-19.898	8.878	11.207	1.00	25.62
ATOM	786	OG	SER	197	-19.563	8.687	12.588	1.00	32.22
ATOM	787	HG	SER	197	-18.795	8.110	12.611	1.00	15.00
ATOM	788	C	SER	197	-22.216	7.810	11.218	1.00	26.33
ATOM	789	O	SER	197	-23.078	8.303	10.497	1.00	26.57
ATOM	790	N	PRO	198	-22.534	7.274	12.407	1.00	26.77
ATOM	791	CD	PRO	198	-21.649	6.526	13.301	1.00	32.92
ATOM	792	CA	PRO	198	-23.919	7.381	12.913	1.00	28.73
ATOM	793	CB	PRO	198	-23.784	6.789	14.318	1.00	32.89
ATOM	794	CG	PRO	198	-22.289	6.726	14.659	1.00	33.55
ATOM	795	C	PRO	198	-24.591	8.789	12.847	1.00	26.60
ATOM	796	O	PRO	198	-24.035	9.817	13.242	1.00	20.20
ATOM	797	N	GLY	199	-25.729	8.773	12.119	1.00	25.75
ATOM	798	H	GLY	199	-26.170	7.857	12.057	1.00	15.00
ATOM	799	CA	GLY	199	-26.486	10.003	11.790	1.00	26.91
ATOM	800	C	GLY	199	-25.821	10.971	10.816	1.00	28.98
ATOM	801	O	GLY	199	-26.084	12.151	10.797	1.00	31.05
ATOM	802	N	ARG	200	-24.898	10.464	10.001	1.00	30.15
ATOM	803	H	ARG	200	-24.629	9.519	10.165	1.00	15.00
ATOM	804	CA	ARG	200	-24.140	11.384	9.166	1.00	28.98
ATOM	805	CB	ARG	200	-22.749	11.590	9.783	1.00	33.16
ATOM	806	CG	ARG	200	-22.739	12.290	11.162	1.00	38.34
ATOM	807	CD	ARG	200	-21.327	12.530	11.705	1.00	42.14
ATOM	808	NE	ARG	200	-21.292	12.875	13.131	1.00	43.64
ATOM	809	HE	ARG	200	-21.327	13.831	13.424	1.00	15.00
ATOM	810	CZ	ARG	200	-21.138	11.896	14.051	1.00	46.40
ATOM	811	NH1	ARG	200	-21.219	10.603	13.733	1.00	46.31
ATOM	812	HH11	ARG	200	-21.104	9.910	14.445	1.00	15.00
ATOM	813	HH12	ARG	200	-21.394	10.320	12.789	1.00	15.00
ATOM	814	NH2	ARG	200	-20.901	12.226	15.311	1.00	46.65
ATOM	815	HH21	ARG	200	-20.847	13.193	15.566	1.00	15.00
ATOM	816	HH22	ARG	200	-20.785	11.510	16.002	1.00	15.00
ATOM	817	C	ARG	200	-24.084	10.967	7.710	1.00	27.77
ATOM	818	O	ARG	200	-24.264	9.791	7.449	1.00	28.21
ATOM	819	N	PHE	201	-23.853	11.926	6.792	1.00	30.83
ATOM	820	H	PHE	201	-23.513	12.821	7.126	1.00	15.00
ATOM	821	CA	PHE	201	-24.016	11.708	5.339	1.00	34.17
ATOM	822	CB	PHE	201	-23.851	12.996	4.572	1.00	31.58
ATOM	823	CG	PHE	201	-25.154	13.730	4.614	1.00	34.85
ATOM	824	CD1	PHE	201	-25.174	15.062	5.081	1.00	37.56
ATOM	825	CD2	PHE	201	-26.335	13.081	4.190	1.00	37.89
ATOM	826	CE1	PHE	201	-26.397	15.749	5.182	1.00	36.91
ATOM	827	CE2	PHE	201	-27.566	13.762	4.280	1.00	38.98
ATOM	828	CZ	PHE	201	-27.572	15.065	4.815	1.00	37.61
ATOM	829	C	PHE	201	-23.277	10.605	4.545	1.00	39.40
ATOM	830	O	PHE	201	-23.853	10.034	3.604	1.00	45.71
ATOM	831	N	GLU	202	-22.031	10.316	5.034	1.00	35.75
ATOM	832	H	GLU	202	-21.878	10.753	5.925	1.00	15.00
ATOM	833	CA	GLU	202	-20.954	9.564	4.318	1.00	34.52
ATOM	834	CB	GLU	202	-21.295	8.540	3.234	1.00	33.66
ATOM	835	CG	GLU	202	-21.924	7.245	3.713	1.00	40.61
ATOM	836	CD	GLU	202	-22.647	6.505	2.561	1.00	46.12
ATOM	837	OE1	GLU	202	-23.461	5.613	2.886	1.00	46.89
ATOM	838	CE2	GLU	202	-22.417	6.814	1.370	1.00	45.63
ATOM	839	C	GLU	202	-19.924	10.450	3.717	1.00	29.99

FIGURE 17O

ATOM	840	O	GLU	202	-20.137	11.567	3.300	1.00	30.76	A
ATOM	841	N	ARG	203	-19.728	9.897	3.856	1.00	26.88	A
ATOM	842	H	ARG	203	-18.690	8.998	4.285	1.00	15.00	A
ATOM	843	CA	ARG	203	-17.539	10.603	3.358	1.00	21.85	A
ATOM	844	CB	ARG	203	-16.819	11.410	4.457	1.00	27.07	A
ATOM	845	CG	ARG	203	-17.681	12.187	5.467	1.00	37.32	A
ATOM	846	CD	ARG	203	-16.894	13.213	6.339	1.00	48.09	A
ATOM	847	NE	ARG	203	-15.911	12.667	7.308	1.00	56.90	A
ATOM	848	HE	ARG	203	-16.240	12.433	8.223	1.00	15.00	A
ATOM	849	CZ	ARG	203	-14.572	12.475	7.001	1.00	66.77	A
ATOM	850	NH1	ARG	203	-13.702	12.002	7.911	1.00	68.44	A
ATOM	851	HH11	ARG	203	-12.745	11.829	7.666	1.00	15.00	A
ATOM	852	HH12	ARG	203	-14.016	11.822	8.845	1.00	15.00	A
ATOM	853	NH2	ARG	203	-14.084	12.716	5.766	1.00	67.68	A
ATOM	854	HH21	ARG	203	-14.670	13.108	5.060	1.00	15.00	A
ATOM	855	HH22	ARG	203	-13.143	12.499	5.544	1.00	15.00	A
ATOM	856	C	ARG	203	-16.517	9.633	2.678	1.00	17.71	A
ATOM	857	O	ARG	203	-16.375	8.418	2.931	1.00	7.69	A
ATOM	858	N	ILE	204	-15.789	10.253	1.791	1.00	14.42	A
ATOM	859	H	ILE	204	-15.915	11.228	1.561	1.00	15.00	A
ATOM	860	CA	ILE	204	-14.662	9.482	1.353	1.00	18.32	A
ATOM	861	CB	ILE	204	-14.520	9.392	-0.231	1.00	24.52	A
ATOM	862	CG2	ILE	204	-15.820	9.529	-1.069	1.00	21.85	A
ATOM	863	CG1	ILE	204	-13.439	10.195	-0.949	1.00	26.35	A
ATOM	864	CD1	ILE	204	-13.992	11.231	-1.961	1.00	36.33	A
ATOM	865	C	ILE	204	-13.387	9.819	2.153	1.00	16.58	A
ATOM	866	O	ILE	204	-13.070	10.956	2.457	1.00	18.63	A
ATOM	867	N	LEU	205	-12.718	8.725	2.571	1.00	13.32	A
ATOM	868	H	LEU	205	-13.142	7.853	2.321	1.00	15.00	A
ATOM	869	CA	LEU	205	-11.467	8.829	3.322	1.00	10.01	A
ATOM	870	CB	LEU	205	-11.440	7.688	4.382	1.00	6.66	A
ATOM	871	CG	LEU	205	-12.571	7.727	5.441	1.00	7.99	A
ATOM	872	CD1	LEU	205	-12.722	9.088	6.089	1.00	8.78	A
ATOM	873	CD2	LEU	205	-12.419	6.720	6.582	1.00	8.08	A
ATOM	874	C	LEU	205	-10.268	8.811	2.377	1.00	9.75	A
ATOM	875	O	LEU	205	-9.416	9.655	2.320	1.00	10.25	A
ATOM	876	N	LEU	206	-10.252	7.769	1.562	1.00	10.28	A
ATOM	877	H	LEU	206	-10.991	7.119	1.684	1.00	15.00	A
ATOM	878	CA	LEU	206	-9.166	7.555	0.610	1.00	10.02	A
ATOM	879	CB	LEU	206	-8.249	6.384	0.990	1.00	11.94	A
ATOM	880	CG	LEU	206	-7.001	6.527	1.859	1.00	14.40	A
ATOM	881	CD1	LEU	206	-7.094	5.595	3.074	1.00	14.49	A
ATOM	882	CD2	LEU	206	-6.531	7.958	2.151	1.00	8.78	A
ATOM	883	C	LEU	206	-9.756	7.071	-0.697	1.00	11.91	A
ATOM	884	O	LEU	206	-10.792	6.406	-0.778	1.00	10.67	A
ATOM	885	N	ARG	207	-9.005	7.428	-1.720	1.00	8.06	A
ATOM	886	H	ARG	207	-8.196	7.992	-1.553	1.00	15.00	A
ATOM	887	CA	ARG	207	-9.309	6.823	-2.992	1.00	10.45	A
ATOM	888	CB	ARG	207	-9.974	7.790	-3.904	1.00	8.71	A
ATOM	889	CG	ARG	207	-11.258	8.270	-3.357	1.00	15.68	A
ATOM	890	CD	ARG	207	-11.652	9.459	-4.163	1.00	22.25	A
ATOM	891	NE	ARG	207	-12.670	9.192	-5.171	1.00	29.59	A
ATOM	892	HE	ARG	207	-13.115	8.300	-5.249	1.00	15.00	A
ATOM	893	CZ	ARG	207	-13.063	10.272	-5.919	1.00	40.09	A
ATOM	894	NH1	ARG	207	-12.482	11.498	-5.813	1.00	36.32	A
ATOM	895	HH11	ARG	207	-12.813	12.246	-6.391	1.00	15.00	A
ATOM	896	HH12	ARG	207	-11.737	11.651	-5.165	1.00	15.00	A
ATOM	897	NH2	ARG	207	-14.067	10.111	-6.773	1.00	40.86	A
ATOM	898	HH21	ARG	207	-4.392	10.877	-7.329	1.00	15.00	A
ATOM	899	HH22	ARG	207	-14.498	9.207	-6.853	1.00	15.00	A

FIGURE 17P

ATOM	900	C	ARG	207	-8.044	6.456	-3.741	1.00	12.59	A
ATOM	901	O	ARG	207	-7.053	7.150	-3.787	1.00	15.58	A
ATOM	902	N	ALA	208	-8.096	5.358	-4.465	1.00	17.06	A
ATOM	903	H	ALA	208	-8.879	4.758	-4.355	1.00	15.00	A
ATOM	904	CA	ALA	208	-7.025	5.128	-5.465	1.00	17.00	A
ATOM	905	CB	ALA	208	-6.052	4.020	-5.072	1.00	14.69	A
ATOM	906	C	ALA	208	-7.544	4.830	-6.854	1.00	20.46	A
ATOM	907	O	ALA	208	-8.438	4.020	-7.057	1.00	21.89	A
ATOM	908	N	ALA	209	-5.986	5.586	-7.808	1.00	26.22	A
ATOM	909	H	ALA	209	-6.280	6.235	-7.533	1.00	15.00	A
ATOM	910	CA	ALA	209	-7.253	5.208	-9.196	1.00	28.06	A
ATOM	911	CB	ALA	209	-7.702	6.380	-10.069	1.00	27.10	A
ATOM	912	C	ALA	209	-6.075	4.461	-9.832	1.00	32.54	A
ATOM	913	O	ALA	209	-4.895	4.726	-9.593	1.00	33.00	A
ATOM	914	N	ASN	210	-6.502	3.491	-10.634	1.00	32.11	A
ATOM	915	H	ASN	210	-7.466	3.249	-10.531	1.00	15.00	A
ATOM	916	CA	ASN	210	-5.674	2.893	-11.662	1.00	36.00	A
ATOM	917	CB	ASN	210	-5.366	1.446	-11.355	1.00	39.53	A
ATOM	918	CG	ASN	210	-4.463	1.366	-10.154	1.00	42.59	A
ATOM	919	OD1	ASN	210	-4.285	2.273	-9.342	1.00	39.26	A
ATOM	920	ND2	ASN	210	-3.951	0.165	-10.055	1.00	41.77	A
ATOM	921	HD21	ASN	210	-3.990	-0.479	-10.817	1.00	15.00	A
ATOM	922	HD22	ASN	210	-3.364	-0.081	-9.279	1.00	15.00	A
ATOM	923	C	ASN	210	-6.299	2.931	-13.043	1.00	36.95	A
ATOM	924	O	ASN	210	-7.492	2.752	-13.259	1.00	36.93	A
ATOM	925	N	THR	211	-5.447	3.168	-14.013	1.00	37.83	A
ATOM	926	H	THR	211	-4.484	3.377	-13.821	1.00	15.00	A
ATOM	927	CA	THR	211	-6.119	3.224	-15.314	1.00	41.27	A
ATOM	928	CB	THR	211	-5.325	4.158	-16.268	1.00	44.53	A
ATOM	929	OG1	THR	211	-6.076	4.506	-17.438	1.00	49.34	A
ATOM	930	HG1	THR	211	-6.032	5.493	-17.508	1.00	15.00	A
ATOM	931	CG2	THR	211	-3.926	3.604	-16.581	1.00	46.08	A
ATOM	932	C	THR	211	-6.434	1.833	-15.878	1.00	39.17	A
ATOM	933	O	THR	211	-5.822	0.863	-15.475	1.00	36.48	A
ATOM	934	N	HIS	212	-7.416	1.718	-16.789	1.00	37.14	A
ATOM	935	H	HIS	212	-8.106	2.438	-16.878	1.00	15.00	A
ATOM	936	CA	HIS	212	-7.294	0.454	-17.529	1.00	33.23	A
ATOM	937	CB	HIS	212	-8.680	-0.012	-18.082	1.00	27.73	A
ATOM	938	CG	HIS	212	-9.856	0.060	-17.111	1.00	24.58	A
ATOM	939	ND1	HIS	212	-10.862	0.967	-17.161	1.00	24.59	A
ATOM	940	HD1	HIS	212	-11.000	1.702	-17.794	1.00	15.00	A
ATOM	941	CD2	HIS	212	-10.049	-0.723	-15.985	1.00	20.65	A
ATOM	942	NE2	HIS	212	-11.154	-0.265	-15.383	1.00	24.01	A
ATOM	943	CE1	HIS	212	-11.665	0.780	-16.092	1.00	17.59	A
ATOM	944	C	HIS	212	-6.257	0.633	-18.683	1.00	38.31	A
ATOM	945	O	HIS	212	-5.363	-0.132	-18.923	1.00	33.92	A
ATOM	946	N	SER	213	-6.444	1.737	-19.443	1.00	46.63	A
ATOM	947	H	SER	213	-7.156	2.323	-19.055	1.00	15.00	A
ATOM	948	CA	SER	213	-5.705	2.177	-20.675	1.00	53.91	A
ATOM	949	CB	SER	213	-4.272	2.704	-20.400	1.00	52.61	A
ATOM	950	OG	SER	213	-3.266	1.697	-20.547	1.00	53.97	A
ATOM	951	HG	SER	213	-3.363	1.064	-19.823	1.00	15.00	A
ATOM	952	C	SER	213	-5.844	1.508	-22.097	1.00	60.03	A
ATOM	953	O	SER	213	-5.005	0.811	-22.682	1.00	61.19	A
ATOM	954	N	SER	214	-7.043	1.803	-22.686	1.00	64.96	A
ATOM	955	H	SER	214	-7.705	2.322	-22.146	1.00	15.00	A
ATOM	956	CA	SER	214	-7.463	1.456	-24.094	1.00	69.62	A
ATOM	957	CB	SER	214	8.727	2.218	-24.495	1.00	67.82	A
ATOM	958	OG	SER	214	-9.563	2.257	-23.336	1.00	67.64	A
ATOM	959	HG	SER	214	-10.468	2.398	-23.623	1.00	15.00	A

FIGURE 17Q

ATOM	960	C	SER	214	-6.518	1.587	-25.300	1.00	72.08	A
ATOM	961	O	SER	214	-6.102	2.683	-25.686	1.00	73.45	A
ATOM	962	N	ALA	215	-6.175	0.409	-25.899	1.00	73.38	A
ATOM	963	H	ALA	215	-5.456	0.596	-26.565	1.00	15.00	A
ATOM	964	CA	ALA	215	-6.858	-0.915	-25.753	1.00	72.62	A
ATOM	965	CB	ALA	215	-7.199	-1.505	-27.138	1.00	73.06	A
ATOM	966	C	ALA	215	-6.331	-2.148	-24.983	1.00	72.11	A
ATOM	967	O	ALA	215	-7.020	-3.161	-25.069	1.00	72.74	A
ATOM	968	N	LYS	216	-5.153	-2.076	-24.282	1.00	70.17	A
ATOM	969	H	LYS	216	-4.747	-1.165	-24.199	1.00	15.00	A
ATOM	970	CA	LYS	216	-4.482	-3.256	-23.626	1.00	67.38	A
ATOM	971	CB	LYS	216	-3.458	-2.691	-22.648	1.00	65.30	A
ATOM	972	CG	LYS	216	-2.217	-2.107	-23.321	1.00	66.86	A
ATOM	973	CD	LYS	216	-1.419	-3.149	-24.134	1.00	68.81	A
ATOM	974	CE	LYS	216	-0.082	-2.674	-24.740	1.00	67.51	A
ATOM	975	NZ	LYS	216	0.483	-3.722	-25.598	1.00	67.80	A
ATOM	976	HZ1	LYS	216	0.620	-4.590	-25.041	1.00	15.00	A
ATOM	977	HZ2	LYS	216	-0.168	-3.914	-26.385	1.00	15.00	A
ATOM	978	HZ3	LYS	216	1.401	-3.406	-25.973	1.00	15.00	A
ATOM	979	C	LYS	216	-5.321	-4.441	-22.993	1.00	66.99	A
ATOM	980	O	LYS	216	-6.462	-4.266	-22.575	1.00	69.90	A
ATOM	981	N	PRO	217	-4.835	-5.724	-22.952	1.00	65.06	A
ATOM	982	CD	PRO	217	-3.525	-6.262	-23.308	1.00	67.91	A
ATOM	983	CA	PRO	217	-5.792	-6.827	-22.626	1.00	62.80	A
ATOM	984	CB	PRO	217	-5.285	-8.004	-23.464	1.00	64.33	A
ATOM	985	CG	PRO	217	-3.755	-7.799	-23.338	1.00	69.63	A
ATOM	986	C	PRO	217	-5.837	-7.237	-21.150	1.00	59.77	A
ATOM	987	O	PRO	217	-4.747	-7.318	-20.589	1.00	58.81	A
ATOM	988	N	CYS	218	-7.115	-7.516	-20.627	1.00	55.45	A
ATOM	989	H	CYS	218	-7.874	-7.287	-21.233	1.00	15.00	A
ATOM	990	CA	CYS	218	-7.433	-7.929	-19.210	1.00	46.55	A
ATOM	991	CB	CYS	218	-8.105	-9.289	-19.079	1.00	44.69	A
ATOM	992	SG	CYS	218	-8.855	-9.822	-17.460	1.00	43.11	A
ATOM	993	C	CYS	218	-6.265	-7.994	-18.263	1.00	43.24	A
ATOM	994	O	CYS	218	-5.720	-9.026	-17.959	1.00	44.68	A
ATOM	995	N	GLY	219	-5.853	-6.820	-17.876	1.00	40.28	A
ATOM	996	H	GLY	219	-6.328	-5.961	-18.059	1.00	15.00	A
ATOM	997	CA	GLY	219	-4.659	-6.828	-17.070	1.00	36.27	A
ATOM	998	C	GLY	219	-5.017	-7.080	-15.643	1.00	33.86	A
ATOM	999	O	GLY	219	-5.906	-6.452	-15.097	1.00	34.90	A
ATOM	1000	N	GLN	220	-4.313	-7.996	-15.023	1.00	33.15	A
ATOM	1001	H	GLN	220	-3.835	-8.684	-15.580	1.00	15.00	A
ATOM	1002	CA	GLN	220	-4.448	-7.929	-13.578	1.00	29.92	A
ATOM	1003	CB	GLN	220	-4.298	-9.282	-12.936	1.00	27.81	A
ATOM	1004	CG	GLN	220	-5.380	-9.340	-11.883	1.00	30.94	A
ATOM	1005	CD	GLN	220	-5.285	-10.631	-11.132	1.00	36.37	A
ATOM	1006	OE1	GLN	220	-4.216	-10.969	-10.661	1.00	38.47	A
ATOM	1007	NE2	GLN	220	-6.425	-11.296	-10.977	1.00	37.61	A
ATOM	1008	HE21	GLN	220	-6.295	-12.235	-10.667	1.00	15.00	A
ATOM	1009	HE22	GLN	220	-7.373	-11.036	-11.200	1.00	15.00	A
ATOM	1010	C	GLN	220	-3.666	-6.845	-12.859	1.00	27.48	A
ATOM	1011	O	GLN	220	-2.461	-6.694	-12.999	1.00	27.61	A
ATOM	1012	N	GLN	221	-4.438	-6.040	-12.110	1.00	25.10	A
ATOM	1013	H	GLN	221	-5.433	-6.174	-12.143	1.00	15.00	A
ATOM	1014	CA	GLN	221	-3.803	-4.929	-11.387	1.00	22.41	A
ATOM	1015	CB	GLN	221	-4.077	-3.528	-11.949	1.00	22.12	A
ATOM	1016	CG	GLN	221	-3.284	-3.029	-13.163	1.00	32.16	A
ATOM	1017	CD	GLN	221	-3.795	-1.637	-13.405	1.00	34.69	A
ATOM	1018	OE1	GLN	221	-3.746	-0.763	-12.558	1.00	42.12	A
ATOM	1019	NE2	GLN	221	-4.648	-1.507	-14.398	1.00	34.93	A

FIGURE 17R

ATOM	1020	HE21	GLN	221	-4.981	-2.187	-15.042	1.00	15.00	A
ATOM	1021	HE22	GLN	221	-4.844	-0.551	-14.575	1.00	15.00	A
ATOM	1022	C	GLN	221	-4.227	-4.913	-9.948	1.00	19.54	A
ATOM	1023	O	GLN	221	-5.300	-5.381	-9.611	1.00	19.46	A
ATOM	1024	N	SER	222	-3.374	-4.330	-9.123	1.00	15.12	A
ATOM	1025	H	SER	222	-2.442	-4.098	-9.441	1.00	15.00	A
ATOM	1026	CA	SER	222	-3.851	-4.120	-7.752	1.00	19.45	A
ATOM	1027	CB	SER	222	-3.104	-4.947	-6.691	1.00	19.99	A
ATOM	1028	OG	SER	222	-3.096	-6.339	-7.053	1.00	24.64	A
ATOM	1029	HG	SER	222	-2.651	-6.336	-7.904	1.00	15.00	A
ATOM	1030	C	SER	222	-3.731	-2.688	-7.330	1.00	24.09	A
ATOM	1031	O	SER	222	-2.992	-1.929	-7.944	1.00	29.41	A
ATOM	1032	N	ILE	223	-4.534	-2.386	-6.283	1.00	22.81	A
ATOM	1033	H	ILE	223	-5.172	-3.127	-6.074	1.00	15.00	A
ATOM	1034	CA	ILE	223	-4.567	-1.122	-5.530	1.00	21.06	A
ATOM	1035	CB	ILE	223	-5.970	-0.490	-5.852	1.00	19.87	A
ATOM	1036	CG2	ILE	223	-6.564	0.315	-4.673	1.00	16.59	A
ATOM	1037	CG1	ILE	223	-5.911	0.278	-7.188	1.00	15.22	A
ATOM	1038	CD1	ILE	223	-7.229	0.868	-7.709	1.00	20.54	A
ATOM	1039	C	ILE	223	-4.367	-1.446	-4.007	1.00	21.62	A
ATOM	1040	O	ILE	223	-5.098	-2.269	-3.444	1.00	19.58	A
ATOM	1041	N	HIS	224	-3.429	-0.767	-3.340	1.00	19.73	A
ATOM	1042	H	HIS	224	-2.794	-0.230	-3.899	1.00	15.00	A
ATOM	1043	CA	HIS	224	-3.497	-0.671	-1.858	1.00	16.45	A
ATOM	1044	CB	HIS	224	-2.164	-1.183	-1.227	1.00	18.74	A
ATOM	1045	CG	HIS	224	-2.182	-1.442	0.296	1.00	14.92	A
ATOM	1046	ND1	HIS	224	-2.479	-2.628	0.682	1.00	15.33	A
ATOM	1047	HD1	HIS	224	-2.667	-3.515	0.505	1.00	15.00	A
ATOM	1048	CD2	HIS	224	-1.964	-0.524	1.310	1.00	13.79	A
ATOM	1049	NE2	HIS	224	-2.137	-1.127	2.517	1.00	10.52	A
ATOM	1050	CE1	HIS	224	-2.458	-2.411	2.232	1.00	11.70	A
ATOM	1051	C	HIS	224	-3.914	0.699	-1.284	1.00	15.18	A
ATOM	1052	O	HIS	224	-3.338	1.732	-1.520	1.00	14.36	A
ATOM	1053	N	LEU	225	-4.970	0.673	-0.468	1.00	16.85	A
ATOM	1054	H	LEU	225	-5.317	-0.238	-0.252	1.00	15.00	A
ATOM	1055	CA	LEU	225	-5.395	1.885	0.256	1.00	15.55	A
ATOM	1056	CB	LEU	225	-6.927	2.082	0.208	1.00	17.15	A
ATOM	1057	CG	LEU	225	-7.495	2.456	-1.154	1.00	18.03	A
ATOM	1058	CD1	LEU	225	-6.792	3.659	-1.774	1.00	19.34	A
ATOM	1059	CD2	LEU	225	-8.994	2.659	-1.098	1.00	13.66	A
ATOM	1060	C	LEU	225	-5.074	1.758	1.739	1.00	14.77	A
ATOM	1061	O	LEU	225	-5.347	0.726	2.345	1.00	12.20	A
ATOM	1062	N	GLY	226	-4.544	2.829	2.344	1.00	18.04	A
ATOM	1063	H	GLY	226	-4.218	3.616	1.813	1.00	15.00	A
ATOM	1064	CA	GLY	226	-4.541	2.833	3.841	1.00	18.37	A
ATOM	1065	C	GLY	226	-4.193	4.171	4.544	1.00	17.08	A
ATOM	1066	O	GLY	226	-3.389	4.906	4.055	1.00	13.75	A
ATOM	1067	N	GLY	227	-4.781	4.457	5.725	1.00	16.30	A
ATOM	1068	H	GLY	227	-5.434	3.771	6.036	1.00	15.00	A
ATOM	1069	CA	GLY	227	-4.379	5.649	6.490	1.00	8.52	A
ATOM	1070	C	GLY	227	-4.935	5.631	7.959	1.00	12.75	A
ATOM	1071	O	GLY	227	-5.651	4.748	8.466	1.00	10.57	A
ATOM	1072	N	VAL	228	-4.588	6.698	8.675	1.00	9.23	A
ATOM	1073	H	VAL	228	-4.040	7.398	8.222	1.00	15.00	A
ATOM	1074	CA	VAL	228	-5.110	6.818	10.067	1.00	11.74	A
ATOM	1075	CB	VAL	228	-4.085	7.320	11.144	1.00	14.30	A
ATOM	1076	CG1	VAL	228	-2.830	6.445	11.333	1.00	10.73	A
ATOM	1077	CG2	VAL	228	-4.789	7.565	12.479	1.00	17.07	A
ATOM	1078	C	VAL	228	-6.238	7.803	10.098	1.00	9.03	A
ATOM	1079	O	VAL	228	-6.089	8.937	9.649	1.00	12.01	A

FIGURE 17S

ATOM	1080	N	PHE	229	-7.347	7.299	10.640	1.00	9.96
ATOM	1081	H	PHE	229	-7.329	6.332	10.922	1.00	15.00
ATOM	1082	CA	PHE	229	-8.566	8.106	10.772	1.00	11.16
ATOM	1083	CB	PHE	229	-9.578	7.687	9.686	1.00	8.01
ATOM	1084	CG	PHE	229	-9.063	7.912	8.233	1.00	8.40
ATOM	1085	CD1	PHE	229	-9.140	9.196	7.649	1.00	10.03
ATOM	1086	CD2	PHE	229	-8.433	6.883	7.517	1.00	6.57
ATOM	1087	CE1	PHE	229	-8.512	9.443	6.395	1.00	5.18
ATOM	1088	CE2	PHE	229	-7.771	7.128	6.282	1.00	4.26
ATOM	1089	CZ	PHE	229	-7.813	8.424	5.731	1.00	5.71
ATOM	1090	C	PHE	229	-9.202	8.014	12.197	1.00	14.39
ATOM	1091	O	PHE	229	-9.116	7.000	12.870	1.00	13.92
ATOM	1092	N	GLU	230	-9.863	9.064	12.672	1.00	17.93
ATOM	1093	H	GLU	230	-9.912	9.892	12.113	1.00	15.00
ATOM	1094	CA	GLU	230	-10.856	8.944	13.770	1.00	18.08
ATOM	1095	CB	GLU	230	-11.218	10.303	14.393	1.00	16.17
ATOM	1096	CG	GLU	230	-11.068	10.090	15.889	1.00	27.69
ATOM	1097	CD	GLU	230	-12.314	10.091	16.805	1.00	33.06
ATOM	1098	OE1	GLU	230	-13.355	10.707	16.552	1.00	38.26
ATOM	1099	OE2	GLU	230	-12.218	9.477	17.863	1.00	38.14
ATOM	1100	C	GLU	230	-12.225	8.268	13.453	1.00	18.70
ATOM	1101	O	GLU	230	-12.967	8.519	12.492	1.00	21.58
ATOM	1102	N	LEU	231	-12.542	7.334	14.361	1.00	13.79
ATOM	1103	H	LEU	231	-11.840	7.125	15.015	1.00	15.00
ATOM	1104	CA	LEU	231	-13.885	6.836	14.330	1.00	13.52
ATOM	1105	CB	LEU	231	-13.954	5.378	14.002	1.00	13.90
ATOM	1106	CG	LEU	231	-13.199	5.064	12.725	1.00	15.44
ATOM	1107	CD1	LEU	231	-13.781	5.712	11.436	1.00	10.24
ATOM	1108	CD2	LEU	231	-12.970	3.569	12.769	1.00	11.74
ATOM	1109	C	LEU	231	-14.638	7.074	15.591	1.00	14.88
ATOM	1110	O	LEU	231	-14.145	6.912	16.692	1.00	12.46
ATOM	1111	N	GLN	232	-15.891	7.411	15.350	1.00	19.40
ATOM	1112	H	GLN	232	-16.107	7.560	14.394	1.00	15.00
ATOM	1113	CA	GLN	232	-16.920	7.509	16.389	1.00	21.07
ATOM	1114	CB	GLN	232	-18.132	8.234	15.804	1.00	23.55
ATOM	1115	CG	GLN	232	-17.792	9.709	15.687	1.00	28.60
ATOM	1116	CD	GLN	232	-17.625	10.200	17.102	1.00	33.66
ATOM	1117	OE1	GLN	232	-18.623	10.472	17.742	1.00	38.08
ATOM	1118	NE2	GLN	232	-16.380	10.254	17.596	1.00	33.41
ATOM	1119	HE21	GLN	232	-15.596	10.186	16.972	1.00	15.00
ATOM	1120	HE22	GLN	232	-16.387	10.470	18.576	1.00	15.00
ATOM	1121	C	GLN	232	-17.402	6.148	16.851	1.00	21.86
ATOM	1122	O	GLN	232	-17.368	5.218	16.052	1.00	21.58
ATOM	1123	N	PRO	233	-17.906	6.013	18.115	1.00	22.31
ATOM	1124	CD	PRO	233	-17.962	7.033	19.168	1.00	21.41
ATOM	1125	CA	PRO	233	-18.570	4.747	18.442	1.00	21.21
ATOM	1126	CB	PRO	233	-19.013	4.987	19.866	1.00	23.88
ATOM	1127	CG	PRO	233	-18.661	6.404	20.339	1.00	20.95
ATOM	1128	C	PRO	233	-19.667	4.417	17.434	1.00	23.66
ATOM	1129	O	PRO	233	-20.275	5.319	16.875	1.00	26.89
ATOM	1130	N	GLY	234	-19.731	3.140	17.059	1.00	22.77
ATOM	1131	H	GLY	234	-19.082	2.466	17.417	1.00	15.00
ATOM	1132	CA	GLY	234	-20.766	2.767	16.072	1.00	19.45
ATOM	1133	C	GLY	234	-20.545	3.241	14.625	1.00	19.67
ATOM	1134	O	GLY	234	-21.299	2.980	13.715	1.00	23.81
ATOM	1135	N	ALA	235	-19.405	3.926	14.368	1.00	18.89
ATOM	1136	H	ALA	235	-19.096	4.485	15.135	1.00	15.00
ATOM	1137	CA	ALA	235	-18.431	3.515	13.296	1.00	22.17
ATOM	1138	CB	ALA	235	-18.193	2.042	13.039	1.00	6.68
ATOM	1139	C	ALA	235	-18.540	4.160	11.993	1.00	21.96

FIGURE 17T

ATOM	1140	O	ALA	235	-18.486	5.395	12.100	1.00	26.42
ATOM	1141	N	SER	236	-18.699	3.498	10.787	1.00	20.94
ATOM	1142	H	SER	236	-18.624	4.326	10.254	1.00	15.30
ATOM	1143	CA	SER	236	-18.630	2.227	9.961	1.00	17.60
ATOM	1144	CB	SER	236	-19.905	1.876	9.160	1.00	14.98
ATOM	1145	OG	SER	236	-20.662	0.908	9.833	1.00	21.35
ATOM	1146	HG	SER	236	-21.599	0.910	9.647	1.00	15.00
ATOM	1147	C	SER	236	-17.794	2.538	8.714	1.00	13.65
ATOM	1148	O	SER	236	-17.939	3.614	8.131	1.00	16.29
ATOM	1149	N	VAL	237	-16.986	1.567	8.286	1.00	14.95
ATOM	1150	H	VAL	237	-16.764	0.823	8.949	1.00	15.00
ATOM	1151	CA	VAL	237	-16.201	1.802	7.077	1.00	11.42
ATOM	1152	CB	VAL	237	-14.681	2.004	7.284	1.00	12.49
ATOM	1153	CG1	VAL	237	-14.113	0.726	7.939	1.00	13.10
ATOM	1154	CG2	VAL	237	-14.254	3.396	7.846	1.00	10.27
ATOM	1155	C	VAL	237	-16.468	0.746	6.035	1.00	8.76
ATOM	1156	O	VAL	237	-16.827	-0.363	6.341	1.00	12.84
ATOM	1157	N	PHE	238	-16.354	1.158	4.773	1.00	12.45
ATOM	1158	H	PHE	238	-16.139	2.128	4.652	1.00	15.00
ATOM	1159	CA	PHE	238	-16.521	0.213	3.653	1.00	11.21
ATOM	1160	CB	PHE	238	-18.013	0.137	3.322	1.00	13.00
ATOM	1161	CG	PHE	238	-18.634	1.468	2.899	1.00	12.17
ATOM	1162	CD1	PHE	238	-18.763	1.812	1.518	1.00	12.94
ATOM	1163	CD2	PHE	238	-19.135	2.332	3.887	1.00	10.55
ATOM	1164	CE1	PHE	238	-19.407	3.010	1.092	1.00	14.01
ATOM	1165	CE2	PHE	238	-19.786	3.504	3.470	1.00	12.74
ATOM	1166	C2	PHE	238	-19.917	3.836	2.100	1.00	13.17
ATOM	1167	C	PHE	238	-15.725	0.582	2.379	1.00	11.20
ATOM	1168	O	PHE	238	-15.137	1.638	2.267	1.00	8.73
ATOM	1169	N	VAL	239	-15.726	-0.300	1.383	1.00	14.34
ATOM	1170	H	VAL	239	-16.187	-1.170	1.523	1.00	15.00
ATOM	1171	CA	VAL	239	-14.982	0.027	0.154	1.00	14.65
ATOM	1172	CB	VAL	239	-13.900	-1.043	-0.162	1.00	14.09
ATOM	1173	CG1	VAL	239	-13.004	-1.318	1.038	1.00	14.55
ATOM	1174	CG2	VAL	239	-13.064	-0.594	-1.361	1.00	14.74
ATOM	1175	C	VAL	239	-15.930	0.081	-1.043	1.00	18.32
ATOM	1176	O	VAL	239	-16.558	-0.903	-1.369	1.00	18.99
ATOM	1177	N	ASN	240	-16.000	1.207	-1.707	1.00	19.26
ATOM	1178	H	ASN	240	-15.420	1.947	-1.383	1.00	15.00
ATOM	1179	CA	ASN	240	-16.613	1.355	-3.031	1.00	21.66
ATOM	1180	CB	ASN	240	-16.850	2.856	-3.095	1.00	24.58
ATOM	1181	CG	ASN	240	-18.167	3.077	-3.708	1.00	29.09
ATOM	1182	OD1	ASN	240	-18.948	2.123	-3.740	1.00	35.44
ATOM	1183	ND2	ASN	240	-18.293	4.331	-4.166	1.00	34.71
ATOM	1184	HD21	ASN	240	-19.149	4.489	-4.657	1.00	15.00
ATOM	1185	C	ASN	240	-15.669	0.950	-4.184	1.00	20.96
ATOM	1186	O	ASN	240	-14.473	1.128	-4.058	1.00	20.99
ATOM	1187	N	VAL	241	-16.189	0.383	-5.275	1.00	21.52
ATOM	1188	H	VAL	241	-17.182	0.230	-5.295	1.00	15.00
ATOM	1189	CA	VAL	241	-15.387	0.439	-6.516	1.00	20.56
ATOM	1190	CB	VAL	241	-14.581	-0.850	-6.849	1.00	18.02
ATOM	1191	CG1	VAL	241	-15.501	-2.058	-7.063	1.00	15.06
ATOM	1192	CG2	VAL	241	-13.597	-1.259	-5.764	1.00	20.05
ATOM	1193	C	VAL	241	-16.253	0.758	-7.741	1.00	18.88
ATOM	1194	O	VAL	241	-17.441	0.500	-7.819	1.00	18.63
ATOM	1195	N	THR	242	-15.541	1.162	-8.762	1.00	21.24
ATOM	1196	H	THR	242	-14.704	1.653	-8.486	1.00	15.00
ATOM	1197	CA	THR	242	-16.246	1.476	-10.031	1.00	20.63
ATOM	1198	CB	THR	242	-15.342	2.269	-10.981	1.00	15.80
ATOM	1199	CG1	THR	242	-14.035	1.663	-10.953	1.00	17.72

FIGURE 17U

ATOM	1200	HG1	THR	240	-13.721	1.969	-11.812	1.00	15.00
ATOM	1201	CG2	THR	242	-15.238	3.732	-10.650	1.00	15.04
ATOM	1202	C	THR	242	-16.755	0.240	-10.783	1.00	15.91
ATOM	1203	O	THR	242	-17.846	0.198	-11.297	1.00	21.26
ATOM	1204	N	ASP	243	-15.923	-0.806	-10.718	1.00	20.98
ATOM	1205	H	ASP	243	-15.087	-0.580	-10.221	1.00	15.00
ATOM	1206	CA	ASP	243	-16.092	-1.977	-11.628	1.00	21.28
ATOM	1207	CB	ASP	243	-14.905	-2.126	-12.594	1.00	22.05
ATOM	1208	CG	ASP	243	-14.932	-0.954	-13.492	1.00	28.23
ATOM	1209	OD1	ASP	243	-14.314	0.051	-13.115	1.00	28.43
ATOM	1210	OD2	ASP	243	-15.588	-1.033	-14.535	1.00	33.00
ATOM	1211	C	ASP	243	-16.123	-3.308	-10.923	1.00	20.38
ATOM	1212	O	ASP	243	-15.148	-4.072	-10.967	1.00	20.43
ATOM	1213	N	PRO	244	-17.204	-3.553	-10.154	1.00	19.92
ATOM	1214	CD	PRO	244	-18.481	-2.871	-10.071	1.00	16.83
ATOM	1215	CA	PRO	244	-17.120	-4.706	-9.269	1.00	19.13
ATOM	1216	CB	PRO	244	-18.293	-4.535	-8.275	1.00	15.33
ATOM	1217	CG	PRO	244	-19.890	-3.174	-8.634	1.00	15.21
ATOM	1218	C	PRO	244	-16.975	-6.034	-9.974	1.00	19.29
ATOM	1219	O	PRO	244	-16.194	-6.859	-9.548	1.00	23.48
ATOM	1220	N	SER	245	-17.581	-6.163	-11.150	1.00	22.60
ATOM	1221	H	SER	245	-18.220	-5.459	-11.473	1.00	15.00
ATOM	1222	CA	SER	245	-17.414	-7.429	-11.942	1.00	25.50
ATOM	1223	CB	SER	245	-18.256	-7.369	-13.234	1.00	21.36
ATOM	1224	OG	SER	245	-19.667	-7.567	-12.981	1.00	38.26
ATOM	1225	HG	SER	245	-19.848	-7.390	-12.038	1.00	15.00
ATOM	1226	C	SER	245	-15.955	-7.776	-12.328	1.00	24.14
ATOM	1227	O	SER	245	-15.477	-8.859	-12.623	1.00	24.84
ATOM	1228	N	GLN	246	-15.177	-6.689	-12.385	1.00	28.52
ATOM	1229	H	GLN	246	-15.638	-5.804	-12.265	1.00	15.00
ATOM	1230	CA	GLN	246	-13.743	-6.923	-12.590	1.00	26.45
ATOM	1231	CB	GLN	246	-13.144	-5.645	-13.233	1.00	29.90
ATOM	1232	CG	GLN	246	-13.403	-5.435	-14.758	1.00	26.84
ATOM	1233	CD	GLN	246	-14.862	-5.341	-15.129	1.00	21.60
ATOM	1234	OE1	GLN	246	-15.538	-4.503	-14.616	1.00	24.20
ATOM	1235	NE2	GLN	246	-15.334	-6.234	-15.975	1.00	26.15
ATOM	1236	HE21	GLN	246	-14.763	-6.924	-16.423	1.00	15.00
ATOM	1237	HE22	GLN	246	-16.320	-6.119	-16.084	1.00	15.00
ATOM	1238	C	GLN	246	-12.936	-7.372	-11.363	1.00	27.14
ATOM	1239	O	GLN	246	-11.721	-7.570	-11.454	1.00	25.73
ATOM	1240	N	VAL	247	-13.615	-7.395	-10.196	1.00	23.70
ATOM	1241	H	VAL	247	-14.600	-7.594	-10.146	1.00	15.00
ATOM	1242	CA	VAL	247	-12.728	-7.569	-9.097	1.00	21.91
ATOM	1243	CB	VAL	247	-13.156	-6.814	-7.859	1.00	21.59
ATOM	1244	CG1	VAL	247	-14.027	-7.616	-6.962	1.00	24.52
ATOM	1245	CG2	VAL	247	-13.680	-5.409	-8.167	1.00	21.61
ATOM	1246	C	VAL	247	-12.258	-8.998	-8.910	1.00	21.55
ATOM	1247	O	VAL	247	-12.946	-9.912	-9.251	1.00	19.53
ATOM	1248	N	SER	248	-11.000	-9.152	-8.444	1.00	21.31
ATOM	1249	H	SER	248	-10.558	-8.342	-8.070	1.00	15.00
ATOM	1250	CA	SER	248	-10.414	-10.499	-8.327	1.00	21.97
ATOM	1251	CB	SER	248	-8.939	-10.571	-8.828	1.00	23.61
ATOM	1252	OG	SER	248	-8.860	-9.952	-10.128	1.00	20.21
ATOM	1253	HG	SER	248	-9.752	-10.027	-10.496	1.00	15.00
ATOM	1254	C	SER	248	-10.538	-11.076	-6.946	1.00	19.28
ATOM	1255	O	SER	248	-10.048	-10.409	-6.052	1.00	20.64
ATOM	1256	N	HIS	249	-11.269	-12.204	-6.814	1.00	18.72
ATOM	1257	H	HIS	249	-11.284	-12.753	-7.674	1.00	15.00
ATOM	1258	CA	HIS	249	-11.640	-12.673	-5.478	1.00	17.22
ATOM	1259	CB	HIS	249	-13.080	-13.152	-5.484	1.00	13.10

FIGURE 17V

ATOM	1260	CG	HIS	249	-13.919	-11.905	-5.550	1.00	10.10
ATOM	1261	ND1	HIS	249	-14.137	-11.129	-4.486	1.00	13.47
ATOM	1262	HD1	HIS	249	-13.720	-11.294	-3.611	1.00	15.01
ATOM	1263	CD2	HIS	249	-14.662	-11.414	-6.610	1.00	10.62
ATOM	1264	NE2	HIS	249	-15.317	-10.347	-6.134	1.00	15.51
ATOM	1265	CE1	HIS	249	-15.018	-10.142	-4.821	1.00	12.36
ATOM	1266	C	HIS	249	-10.701	-13.683	-4.858	1.00	23.58
ATOM	1267	O	HIS	249	-11.103	-14.729	-4.359	1.00	21.98
ATOM	1268	N	GLY	250	-9.398	-13.258	-4.878	1.00	29.10
ATOM	1269	H	GLY	250	-9.252	-12.351	-5.253	1.00	15.00
ATOM	1270	CA	GLY	250	-8.410	-14.041	-4.115	1.00	24.27
ATOM	1271	C	GLY	250	-8.336	-15.372	-4.743	1.00	25.93
ATOM	1272	O	GLY	250	-8.940	-15.520	-5.795	1.00	29.26
ATOM	1273	N	THR	251	-7.594	-16.302	-4.127	1.00	22.38
ATOM	1274	H	THR	251	-7.485	-17.038	-4.804	1.00	15.00
ATOM	1275	CA	THR	251	-7.111	-16.139	-2.725	1.00	21.12
ATOM	1276	CB	THR	251	-6.988	-17.525	-1.933	1.00	24.76
ATOM	1277	OG1	THR	251	-5.877	-17.641	-0.981	1.00	22.90
ATOM	1278	HG1	THR	251	-6.063	-18.366	-0.381	1.00	15.00
ATOM	1279	CG2	THR	251	-6.968	-18.722	-2.890	1.00	22.77
ATOM	1280	C	THR	251	-5.952	-15.158	-2.473	1.00	17.96
ATOM	1281	O	THR	251	-4.969	-15.043	-3.213	1.00	12.30
ATOM	1282	N	GLY	252	-6.241	-14.367	-1.419	1.00	16.85
ATOM	1283	H	GLY	252	-7.093	-14.432	-0.862	1.00	15.00
ATOM	1284	CA	GLY	252	-5.277	-13.375	-0.928	1.00	13.16
ATOM	1285	C	GLY	252	-5.357	-12.058	-1.670	1.00	15.51
ATOM	1286	O	GLY	252	-4.580	-11.168	-1.439	1.00	15.18
ATOM	1287	N	PHE	253	-6.189	-12.063	-2.744	1.00	16.66
ATOM	1288	H	PHE	253	-6.868	-12.805	-2.761	1.00	15.00
ATOM	1289	CA	PHE	253	-6.110	-10.892	-3.651	1.00	15.77
ATOM	1290	CB	PHE	253	-6.649	-11.216	-5.100	1.00	17.11
ATOM	1291	CG	PHE	253	-5.595	-11.840	-5.994	1.00	11.82
ATOM	1292	CD1	PHE	253	-4.385	-11.175	-6.231	1.00	13.69
ATOM	1293	CD2	PHE	253	-5.845	-13.089	-6.558	1.00	18.59
ATOM	1294	CE1	PHE	253	-3.364	-11.771	-6.993	1.00	14.39
ATOM	1295	CE2	PHE	253	-4.840	-13.680	-7.363	1.00	21.37
ATOM	1296	CZ	PHE	253	-3.612	-13.014	-7.562	1.00	15.72
ATOM	1297	C	PHE	253	-6.740	-9.599	-3.147	1.00	13.88
ATOM	1298	O	PHE	253	-6.347	-8.477	-3.453	1.00	14.27
ATOM	1299	N	THR	254	-7.865	-9.837	-2.502	1.00	14.00
ATOM	1300	H	THR	254	-8.079	-10.748	-2.124	1.00	15.00
ATOM	1301	CA	THR	254	-8.741	-8.681	-2.185	1.00	14.09
ATOM	1302	CB	THR	254	-9.908	-8.469	-3.201	1.00	11.66
ATOM	1303	OG1	THR	254	-9.414	-8.325	-4.536	1.00	13.08
ATOM	1304	HG1	THR	254	-9.826	-9.054	-4.992	1.00	15.00
ATOM	1305	CG2	THR	254	-10.882	-7.321	-2.885	1.00	13.78
ATOM	1306	C	THR	254	-9.270	-8.779	-0.738	1.00	12.36
ATOM	1307	O	THR	254	-9.906	-9.695	-0.240	1.00	14.54
ATOM	1308	N	SER	255	-9.007	-7.683	-0.027	1.00	13.42
ATOM	1309	H	SER	255	-8.425	-7.021	-0.490	1.00	15.00
ATOM	1310	CA	SER	255	-9.032	-7.725	1.431	1.00	7.59
ATOM	1311	CB	SER	255	-7.793	-8.466	1.976	1.00	6.39
ATOM	1312	CG	SER	255	-6.704	-7.560	2.041	1.00	9.69
ATOM	1313	HG	SER	255	-5.920	-8.031	1.741	1.00	15.00
ATOM	1314	C	SER	255	-9.248	-6.341	2.085	1.00	10.05
ATOM	1315	O	SER	255	-9.191	-5.254	1.492	1.00	15.21
ATOM	1316	N	PHE	256	-9.653	-6.385	3.369	1.00	8.54
ATOM	1317	H	PHE	256	-9.700	-7.323	3.733	1.00	15.00
ATOM	1318	CA	PHE	256	-10.114	-5.168	4.035	1.00	7.94
ATOM	1319	CB	PHE	256	-11.605	-5.009	3.679	1.00	11.65

FIGURE 17W

ATOM	1320	CG	PHE	256	-12.376	-3.524	4.235	1.00	3.72
ATOM	1321	CD1	PHE	256	-11.765	-2.570	4.533	1.00	11.20
ATOM	1322	CD2	PHE	256	-13.756	-3.976	4.327	1.00	6.12
ATOM	1323	CE1	PHE	256	-12.503	-1.490	5.034	1.00	11.49
ATOM	1324	CE2	PHE	256	-14.514	-2.849	4.734	1.00	6.86
ATOM	1325	CZ	PHE	256	-13.862	-1.657	5.211	1.00	9.27
ATOM	1326	C	PHE	256	-9.933	-5.268	5.560	1.00	11.92
ATOM	1327	O	PHE	256	-10.195	-6.290	6.177	1.00	9.43
ATOM	1328	N	GLY	257	-9.420	-4.207	6.169	1.00	10.57
ATOM	1329	H	GLY	257	-9.217	-3.365	5.653	1.00	15.00
ATOM	1330	CA	GLY	257	-9.368	-4.406	7.612	1.00	11.26
ATOM	1331	C	GLY	257	-8.965	-3.122	8.287	1.00	11.14
ATOM	1332	O	GLY	257	-8.916	-2.068	7.679	1.00	10.81
ATOM	1333	N	LEU	258	-8.688	-3.277	9.565	1.00	12.61
ATOM	1334	H	LEU	258	-8.776	-4.204	9.943	1.00	15.00
ATOM	1335	CA	LEU	258	-8.434	-2.098	10.426	1.00	14.72
ATOM	1336	CB	LEU	258	-9.751	-1.212	10.704	1.00	14.67
ATOM	1337	CG	LEU	258	-10.991	-1.863	11.379	1.00	18.02
ATOM	1338	CD1	LEU	258	-12.317	-1.125	11.094	1.00	15.05
ATOM	1339	CD2	LEU	258	-10.743	-2.047	12.905	1.00	15.42
ATOM	1340	C	LEU	258	-7.737	-2.525	11.709	1.00	11.84
ATOM	1341	O	LEU	258	-7.851	-3.690	12.096	1.00	7.91
ATOM	1342	N	LEU	259	-7.058	-1.537	12.343	1.00	11.64
ATOM	1343	H	LEU	259	-6.883	-0.685	11.844	1.00	15.00
ATOM	1344	CA	LEU	259	-6.581	-1.780	13.714	1.00	9.53
ATOM	1345	CB	LEU	259	-5.155	-2.417	13.831	1.00	7.40
ATOM	1346	CG	LEU	259	-4.194	-1.621	12.931	1.00	11.40
ATOM	1347	CD1	LEU	259	-3.355	-2.412	11.926	1.00	7.83
ATOM	1348	CD2	LEU	259	-3.379	-0.670	13.808	1.00	13.30
ATOM	1349	C	LEU	259	-6.652	-0.497	14.531	1.00	10.40
ATOM	1350	O	LEU	259	-6.202	0.556	14.082	1.00	9.73
ATOM	1351	N	LYS	260	-7.193	-0.629	15.762	1.00	12.00
ATOM	1352	H	LYS	260	-7.395	-1.553	16.115	1.00	15.00
ATOM	1353	CA	LYS	260	-7.069	0.521	16.693	1.00	13.51
ATOM	1354	CB	LYS	260	-8.014	0.312	17.885	1.00	13.49
ATOM	1355	CG	LYS	260	-8.378	1.656	18.521	1.00	17.16
ATOM	1356	CD	LYS	260	-9.435	1.456	19.596	1.00	12.01
ATOM	1357	CE	LYS	260	-10.151	2.681	20.121	1.00	11.41
ATOM	1358	NZ	LYS	260	-9.175	3.595	20.697	1.00	13.33
ATOM	1359	HZ1	LYS	260	-8.534	3.932	19.954	1.00	15.00
ATOM	1360	HZ2	LYS	260	-9.693	4.404	21.095	1.00	15.00
ATOM	1361	HZ3	LYS	260	-8.638	3.136	21.458	1.00	15.00
ATOM	1362	C	LYS	260	-5.648	0.921	17.125	1.00	16.54
ATOM	1363	O	LYS	260	-4.828	0.112	17.481	1.00	15.61
ATOM	1364	N	LEU	261	-5.353	2.199	17.015	1.00	14.78
ATOM	1365	H	LEU	261	-6.089	2.838	16.856	1.00	15.00
ATOM	1366	CB	LEU	261	-3.705	4.005	17.185	1.00	19.53
ATOM	1367	CG	LEU	261	-3.177	4.309	15.787	1.00	16.82
ATOM	1368	CD1	LEU	261	-3.010	5.779	15.767	1.00	12.45
ATOM	1369	CD2	LEU	261	-4.010	3.906	14.577	1.00	18.20
ATOM	1370	C	LEU	261	-4.243	2.667	19.225	1.00	20.80
ATOM	1371	OCT1	LEU	261	-5.363	2.741	19.746	1.00	22.59
ATOM	1372	OCT2	LEU	261	-3.221	2.696	19.913	1.00	26.97
ATOM	1373	CA	LEU	261	-4.122	2.604	17.684	1.00	18.13
ATOM	1374	S	HCH	501	-20.040	9.837	7.596	1.00	16.33
ATOM	1375	H1	HCH	501	-19.411	10.547	7.803	1.00	10.00
ATOM	1376	H2	HCH	501	-19.615	9.317	6.900	1.00	10.00
ATOM	1377	S	HCH	502	-9.727	11.545	10.743	1.00	10.94
ATOM	1378	H1	HCH	502	-10.039	11.934	9.919	1.00	15.00
ATOM	1379	H2	HCH	502	-10.233	12.125	11.315	1.00	15.00

FIGURE 17X

ATOM	1380	O	HOH	503	-8.158	13.188	13.681	1.00	30.64	W
ATOM	1381	H1	HOH	503	-8.715	12.529	13.277	1.00	15.00	W
ATOM	1382	H2	HOH	503	-8.700	13.944	13.574	1.00	15.00	W
ATOM	1383	O	HOH	504	-16.772	8.440	12.789	1.00	12.00	W
ATOM	1384	H1	HOH	504	-17.194	9.259	12.886	1.00	10.00	W
ATOM	1385	H2	HOH	504	-15.921	8.763	12.582	1.00	10.00	W
ATOM	1386	O	HOH	505	-25.173	7.297	7.925	1.00	47.03	W
ATOM	1387	H1	HOH	505	-24.690	8.064	8.239	1.00	10.00	W
ATOM	1388	H2	HOH	505	-25.990	7.684	7.583	1.00	10.00	W
ATOM	1389	O	HOH	506	-23.612	14.948	13.859	1.00	36.14	W
ATOM	1390	H1	HOH	506	-24.160	15.702	13.605	1.00	10.00	W
ATOM	1391	H2	HOH	506	-23.282	15.191	14.748	1.00	10.00	W
ATOM	1392	O	HOH	507	-17.329	-8.460	-7.186	1.00	34.02	W
ATOM	1393	O	HOH	508	-18.687	-7.253	-3.843	1.00	63.14	W
ATOM	1394	O	HOH	509	-7.157	11.327	3.239	1.00	22.26	W
ATOM	1395	O	HOH	510	-19.322	7.486	-2.227	1.00	37.69	W
ATOM	1396	O	HOH	511	-14.645	-7.711	-1.931	1.00	26.48	W
ATOM	1397	O	HOH	512	-18.377	-9.754	12.556	1.00	24.86	W
ATOM	1398	O	HOH	513	0.030	0.048	-13.455	1.00	26.05	W
ATOM	1399	O	HOH	514	-8.938	5.945	22.862	1.00	34.39	W
ATOM	1400	O	HOH	515	-29.446	-4.922	-7.247	1.00	41.61	W
ATOM	1401	O	HOH	516	-12.982	10.220	10.038	1.00	47.16	W
ATOM	1402	O	HOH	517	-21.797	-9.377	7.242	1.00	60.65	W
ATOM	1403	O	HOH	518	-7.867	8.165	19.484	1.00	40.46	W
ATOM	1404	O	HOH	520	-15.588	-14.701	14.628	1.00	63.80	W
ATOM	1405	O	HOH	521	-21.844	7.778	20.415	1.00	35.72	W
ATOM	1406	O	HOH	522	-6.555	-3.308	-15.790	1.00	33.63	W
ATOM	1407	O	HOH	523	-9.046	-13.476	-8.051	1.00	44.08	W
ATOM	1408	O	HOH	524	-17.413	-9.311	17.071	1.00	34.06	W
ATOM	1409	O	HOH	525	-23.838	4.781	19.884	1.00	37.99	W
ATOM	1410	O	HOH	526	-26.323	15.525	10.379	1.00	72.49	W
ATOM	1411	O	HOH	527	-3.167	-13.749	-10.820	1.00	43.99	W
ATOM	1412	O	HOH	528	-0.470	2.513	17.943	1.00	63.68	W
ATOM	1413	O	HOH	529	-5.580	-12.778	-14.864	1.00	47.52	W
ATOM	1414	O	HOH	530	-2.641	7.004	2.495	1.00	18.07	W
ATOM	1415	O	HOH	531	-6.472	12.847	0.156	1.00	24.96	W
ATOM	1416	O	HOH	532	-10.363	-16.426	-0.360	1.00	63.56	W
ATOM	1417	O	HOH	533	-1.378	-17.183	-13.053	1.00	67.67	W
ATOM	1418	O	HOH	534	-4.774	9.073	-0.651	1.00	23.36	W
ATOM	1419	O	HOH	535	-18.917	-13.857	6.913	1.00	32.28	W
ATOM	1420	O	HOH	536	-23.062	3.270	0.454	1.00	52.03	W
ATOM	1421	O	HOH	537	-25.906	9.022	16.986	1.00	44.75	W
ATOM	1422	O	HOH	538	-21.729	16.972	17.027	1.00	53.12	W
ATOM	1423	O	HOH	539	-9.084	11.806	17.034	1.00	70.90	W
ATOM	1424	O	HOH	540	-10.938	-13.296	15.207	1.00	35.65	W
ATOM	1425	O	HOH	541	-6.068	13.255	17.989	1.00	67.36	W
ATOM	1426	O	HOH	542	-20.593	-11.039	-9.003	1.00	96.30	W
ATOM	1427	O	HOH	543	-15.926	13.397	1.269	1.00	35.72	W
ATOM	1428	O	HOH	544	-24.591	-7.285	-2.353	1.00	43.42	W
ATOM	1429	O	HOH	545	-25.859	-2.666	-15.747	1.00	53.56	W
ATOM	1430	O	HOH	546	-23.074	-1.533	11.026	1.00	56.44	W
ATOM	1431	O	HOH	548	-8.941	-12.649	-12.394	1.00	64.34	W
ATOM	1432	O	HOH	549	-14.150	6.038	-12.250	1.00	41.38	W
ATOM	1433	O	HOH	550	-14.274	-0.613	18.441	1.00	56.17	W
ATOM	1434	O	HOH	551	-12.241	-19.609	8.637	1.00	80.90	W
ATOM	1435	O	HOH	552	-10.316	15.578	10.166	1.00	39.58	W
ATOM	1436	O	HOH	553	-15.367	10.941	14.659	1.00	40.40	W
ATOM	1437	O	HOH	554	-2.322	1.830	-5.294	1.00	33.65	W
ATOM	1438	O	HOH	555	-22.393	-14.875	-4.217	1.00	52.40	W
ATOM	1439	O	HOH	556	-22.120	14.279	7.189	1.00	38.55	W

FIGURE 17Y

ATOM	1440	O	HOH	557	-28.833	6.135	9.560	1.00	37.40
ATOM	1441	O	HOH	558	-5.554	-16.509	13.192	1.00	88.88
ATOM	1442	O	HOH	559	-22.996	12.522	1.162	1.00	63.77
ATOM	1443	O	HOH	560	-13.764	2.268	-14.743	1.00	27.47
ATOM	1444	O	HOH	561	-15.556	7.750	-5.628	1.00	75.88
ATOM	1445	O	HOH	562	-1.970	-15.363	-17.719	1.00	76.30
ATOM	1446	O	HOH	563	-18.939	-0.335	-13.842	1.00	48.39
ATOM	1447	O	HOH	564	-12.619	14.760	-6.974	1.00	100.59
ATOM	1448	O	HOH	565	*9.491	18.046	13.682	1.00	87.45
ATOM	1449	O	HOH	566	-11.655	-11.140	22.481	1.00	28.88
ATOM	1450	O	HOH	567	-24.072	-3.264	-0.332	1.00	35.13
ATOM	1451	O	HOH	568	-27.455	0.119	-7.117	1.00	71.07
ATOM	1452	O	HOH	569	-14.604	3.516	-6.119	1.00	59.45
ATOM	1453	O	HOH	570	-2.635	-9.566	-16.973	1.00	59.09
ATOM	1454	O	HOH	571	-18.841	4.066	-7.543	1.00	34.10
ATOM	1455	O	HOH	572	-24.996	1.301	17.953	1.00	70.45
ATOM	1456	O	HOH	573	-14.666	16.471	8.995	1.00	62.77
ATOM	1457	O	HOH	574	-14.786	1.426	10.949	1.00	82.68
ATOM	1458	O	HOH	575	-16.584	-14.717	-4.352	1.00	29.09
ATOM	1459	O	HOH	576	-16.273	-4.590	6.109	1.00	104.64
ATOM	1460	O	HOH	577	-25.471	-0.127	-2.510	1.00	62.74
ATOM	1461	O	HOH	578	-7.334	-17.173	19.514	1.00	89.62
ATOM	1462	O	HOH	579	-21.060	14.259	19.996	1.00	69.59
ATOM	1463	O	HOH	580	-19.286	4.057	-12.816	1.00	60.37
ATOM	1464	O	HOH	581	-22.445	-15.840	0.317	1.00	58.24
ATOM	1465	O	HOH	582	-22.434	-10.539	12.489	1.00	70.25
ATOM	1466	O	HOH	583	-21.327	3.668	-2.500	1.00	39.32
ATOM	1467	O	HOH	584	-25.325	5.247	16.919	1.00	41.31
ATOM	1468	O	HOH	585	-24.945	-10.718	-2.375	1.00	38.85
ATOM	1469	O	HOH	586	-24.342	-13.003	1.927	1.00	70.58
ATOM	1470	O	HOH	587	-18.020	11.871	11.358	1.00	64.47
ATOM	1471	O	HOH	588	-27.135	6.965	13.151	1.00	53.96
ATOM	1472	O	HOH	589	-14.982	-16.230	-2.494	1.00	30.24
ATOM	1473	O	HOH	590	-5.646	14.418	-2.232	1.00	41.78
ATOM	1474	O	HOH	591	-2.745	-0.153	-17.104	1.00	55.19
ATOM	1475	O	HOH	592	-3.397	-7.012	22.477	1.00	59.46
ATOM	1476	O	HOH	593	-32.916	-4.705	-4.143	1.00	51.88
ATOM	1477	O	HOH	594	-10.913	-18.855	-3.503	1.00	42.29
ATOM	1478	O	HOH	595	-24.157	1.821	-6.165	1.00	47.43